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*Year Book*

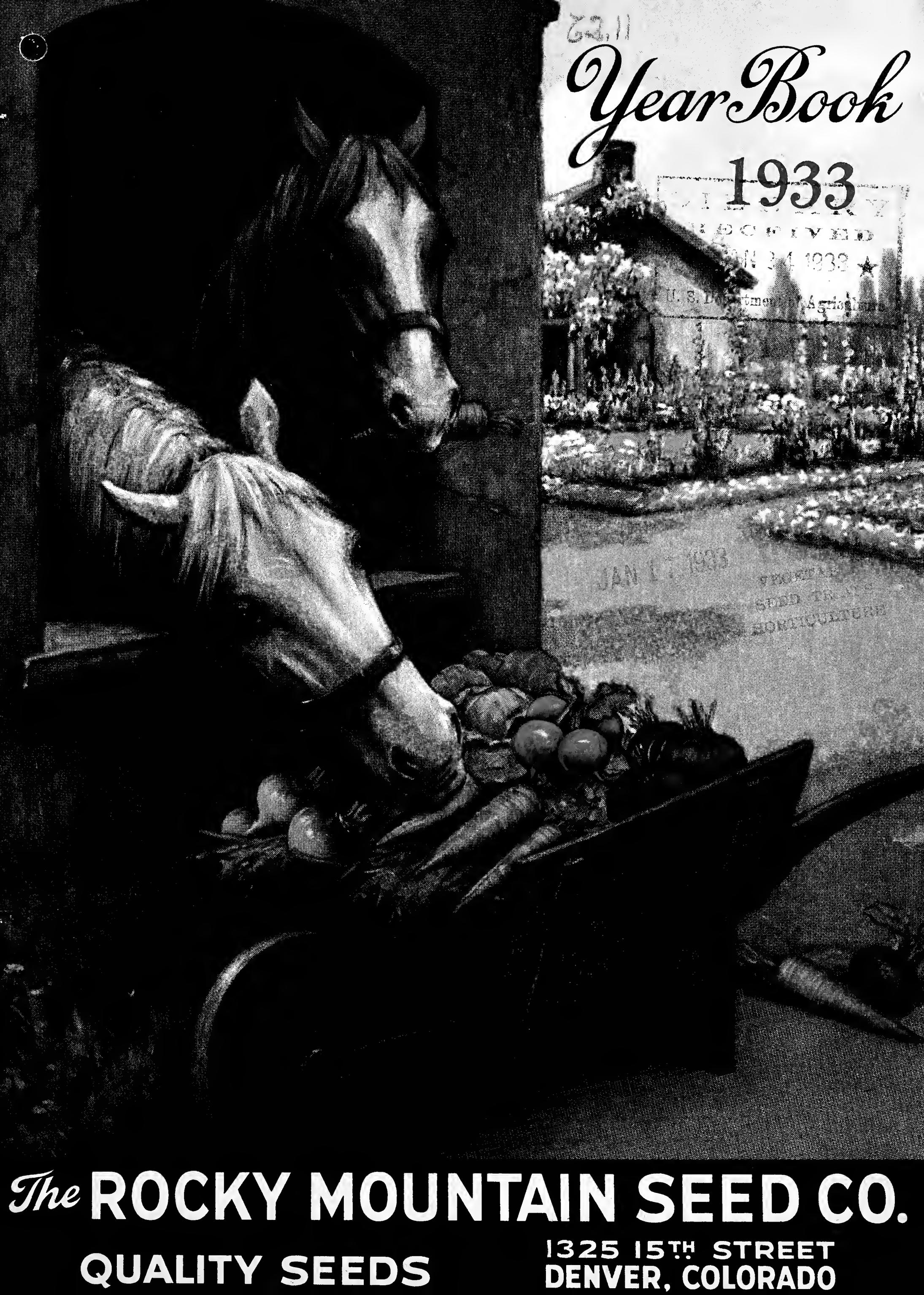
1933

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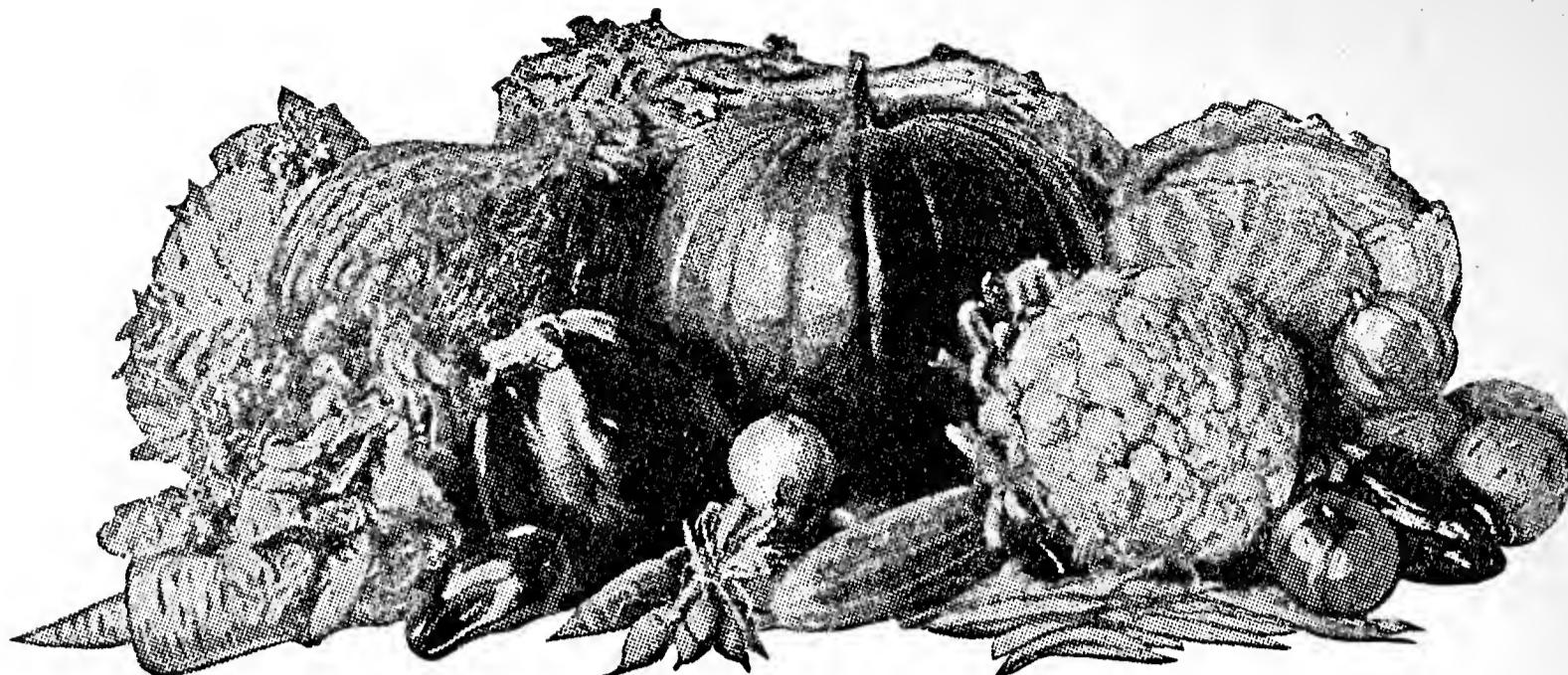
ANNUAL REPORT OF THE DEPARTMENT OF AGRICULTURE FOR THE YEAR 1933



*The* **ROCKY MOUNTAIN SEED CO.**

**QUALITY SEEDS**

1325 15TH STREET  
DENVER, COLORADO



## Vegetable Collections

### No. 1—Special Garden Collection.....\$1.60 value postpaid for \$1.00

This collection contains twenty-eight packets Vegetable seed and one ounce Spencer's Mixed Sweet Peas.  
The following popular varieties are included in Collection No. 1:

Beans, Stringless Greenpod.	Parsnip, Hollow Crown.
Beans, Improved Golden Wax.	Peas, Extra Early Alaska.
Beets, Detroit Dark Red.	Peas, Dwarf Telephone or Daisy.
Beets, Crosby's Early Egyptian.	Pumpkin, Small Sugar or Pie.
Cabbage, Early Jersey Wakefield.	Onion, Large Red Wethersfield.
Cabbage, Premium Late Flat Dutch.	Onion, Yellow Globe.
Sweet Corn, Imp. Golden Bantam.	Radish, White Icicle.
Sweet Corn, Country Gentlemen.	Radish, White Tip Scarlet Turnip.
Cucumber, Snow's Pickling.	Squash, Yellow Crookneck.
Cucumber, Early White Spine.	Squash, The Hubbard.
Lettuce, Early Curled Simpson	Tomato, Chalk's Early Jewel.
Lettuce, Big Boston.	Tomato, Livingston's Beauty.
Muskmelon, Greeley Wonder.	Turnip, White Egg.
Watermelon, Kleckley's Sweet.	Turnip, Purple Top White Globe.

One Ounce Sweet Peas, Spencer's Mixed.

### No. 2—Country Garden Collection.....\$2.75 value postpaid for \$2.00

This collection is made up for those who are not familiar with the different kinds of vegetables. We have selected those varieties which we consider the best in their respective class.

1/4 lb. Beans, Burpee's Greenpod.	1/2 oz. Onion, White Portugal.
1/4 lb. Beans, Imp. Golden Wax.	1/2 oz. Onion, Large Red Wethersfield.
1 oz. Beets, Detroit Dark Red.	1 pkt. Parsley, Moss Curled.
1 pkt. Cabbage, Copenhagen Mkt.	1 oz. Parsnip, Hollow Crown.
1 oz. Carrots, Chantenay.	1/2 lb. Peas, Little Marvel.
1/4 lb. Corn, Imp. Golden Bantam.	1 pkt. Pumpkin, Small Sugar or Pie.
1 pkt. Cucumber, Davis Perfect.	1 oz. Radish, White Tip Scarlet Turnip.
1 pkt. Cucumber, Snow's Pickling.	1 oz. Radish, White Icicle.
1 pkt. Kohl-Rabi, White Vienna.	1 pkt. Salsify, Man. Sandwich Island.
1 pkt. Lettuce, Big Boston.	1 oz. Spinach, Viroflay.
1 pkt. Lettuce, Early Curled Simpson.	1 pkt. Squash, The Hubbard.
1 pkt. Cantaloupe, Rocky Ford.	1 pkt. Squash, White Bush.
1 pkt. Watermelon, Tom Watson.	1 oz. Turnip, Purple Top White Globe.

1/4 lb. Sweet Peas, Spencer's Mixed.

### No. 3—Sweet Corn Collection.....Postpaid \$0.50

One-fourth pound each of five best varieties: Early Surprise, Improved Golden Bantam, Golden Giant, Early Evergreen and Country Gentlemen.

## Flower Collections

### No. 4—Home Flower Collection.....\$0.75

This collection contains fourteen 10c packets of choice flower seeds.

Alyssum, Nasturtium, Poppies, Zinnia, Petunia, Aster, Balsam, Hollyhock, Marigold, Sweet Peas, Mignonette, Pansies, Verbena and Cosmos.

### No. 5—Dahlia Flowered Zinnia Collection .....

### No. 6—Orchid Flowering Sweet Pea Collection .....

\$0.75

This collection contains ten full size 10c packets.

All separate colors: White, Pink, Yellow, Lavender, Rose, Purple, Maroon, Scarlet, Salmon and Blue.

### No. 7—Perennial Flower Seed Collection .....

\$0.50

This collection contains one 10c packet each of the following varieties:

Aquilegia (mixed), Campanula (mixed), Coreopsis, Daisy (Shasta), Digitalis (Monstrosa), Pinks (Hardy Garden), Poppy (Oriental), and Sweet William.

### No. 8—Everlasting Flower Collection .....

\$0.35

This collection contains one 10c packet each of beautiful Everlasting Flowers:

Acroclinium, Globe Amaranth, Helichrysum, Rhodanthe and Statice.

Exquisite, color light rose with center a deep rose; Illumination, similar to Exquisite but a striking self color of deep rose; Crimson Monarch, color red; Oriole, color orange and gold bicolor; Purple Prince, color deep purple; and Polar Bear, color pure white.

# Quantity Price List of Field and Grass Seeds

## FOR PROMPT ORDERS

TERMS CASH, F. O. B. Denver, no charge for cartage, prices subject to market change; seamless cotton sacks charged at 30c each. If you are interested in larger quantities of field seeds, please ask for samples and prices.

### Alfalfa

	Per Cwt.
Grimm Blue Tag Certified	\$24.00
Grimm Red Tag Certified	22.00
Grimm Affidavit	20.00
Cossack Affidavit	20.00
Special No. 10 Alfalfa	18.00
Domestic Fancy, 99 % Purity	16.00
Domestic Choice, 97.5 % Purity	15.00
Domestic Prime, 96 % Purity	14.00
Other grades by sample.	

### Clovers

Alsiike or Swedish, Fancy	18.00
Alsiike or Swedish, Choice	16.00
Red Clover (Medium), Fancy	15.00
Red Clover (Medium), Choice	14.00
Red Clover, Mammoth, Fancy	16.00
Lespedeza Korean, Clover	11.00
White Dutch (for Lawns)	40.00
White Dutch (for Pasture)	28.00

### Sweet Clover

White Blossom (Scarified)	7.00
White Blossom (Not Scarified)	6.50
Yellow Blossom (Scarified)	7.00
Yellow Blossom (Not Scarified)	6.50

### Grass

Brome Grass, (Inermus) Fancy	14.00
Meadow Fescue, English Blue Grass, Fancy	11.00
Meadow Fescue, English Blue Grass, Choice	10.00
Orchard Grass, Fancy	14.00
Orchard Grass, Choice	12.00
Rye Grass (Perennial)	12.00
Rye Grass (Oregon)	8.00
Red Top, Fancy	14.00
Red Top, Choice	12.00
Timothy, Fancy	7.00
Timothy, Choice	6.50
Sudan Grass, Fancy	2.75
Sudan Grass, Choice	2.50
Bermuda Grass, Fancy	16.00
Morton's Pasture Mixture	12.00
Kentucky Blue Grass, 23 lb. Seed	18.00
Kentucky Blue Grass, 21 lb. Seed	16.00
Kentucky Blue Grass, 19 lb. Seed	14.00
Imported Creeping Bent	80.00
Astoria Creeping Bent	100.00
Coos or Seaside Bent	100.00
Western Wheat Grass	16.00
Johnson Grass	11.00
Chewing Fescue (New Zealand)	26.00
Sheep or Hard Fescue	22.00
Poa Trivialis (Shade Grass)	24.00
Timothy and 10 % Alsiike Mixed	7.50
Timothy and 20 % Alsiike Mixed	9.50
Perfegro Lawn Mixture	22.00
Fancy Lawn Mixture	20.00
Quick Grow Lawn Mixture	18.00
Shady Spot Lawn Mixture	28.00

### Millets

White Wonder	2.00
Siberian or Red Russian	2.50
Manitoba or Hog	1.75
Early Fortune, Red Hog	1.75
Big German (True)	2.50
Western or Golden	2.00

### Field Beans

Mexican Pinto	3.50
Great Northern (Large Navy)	4.00
Michigan Pea Bean (Small Navy)	3.50
Baby Limas	7.00

### Field Corn

White Australian Flint	2.00
Early Yellow Flint	2.00
Rainbow Flint	2.25
Blue Squaw	2.25
Calico	2.00
Minnesota No. 13	2.00
Minnesota No. 13 (Registered)	3.50
Colorado Yellow Dent	2.00
Logan County White Dent	3.50
Swadley	2.50
King of the Earliest	2.50
Bloody Butcher	2.50
Northwestern Dent	2.50

### Field Corn—Continued

	Per Cwt.
Reid's Yellow Dent	\$3.00
Colorado No. 13 (Not Registered)	3.00
Red Cob Ensilage	3.50
Iowa Silver Mine	3.50

### Sorghums

Black Amber Cane	1.75
Red Amber Cane	1.75
Red Orange Cane	2.25
Yellow Orange Cane (Sourless)	2.25
White Cane (Freed)	2.00
Sumac or Red Top	2.25
Texas Seeded Ribbon Cane	2.50
Feterita	2.50
White Kafir, Dwarf Black Hull	2.00
Red Kafir	2.00
Milo, Wheatland	2.00
Milo Maize, Yellow Straightneck	2.00
Grohoma	3.00

### Grains

Wheat, New Marquis	2.00
Wheat, Amber Durum	2.00
Barley, Trebi (Bearded)	1.50
Barley, Trebi (Bearded), Registered	2.00
Barley, Colsess (No Beards)	1.75
Barley, Colsess, Registered	2.00
Barley, Club Mariot (Bearded), Registered	2.00
Barley, White Bald or Hulless	2.50
Rye, Spring	2.50
Rye, Fall or Winter	2.00
Oats, Swedish Select	1.75
Oats, Victory	1.75
Oats, Victory, Registered	2.00
Oats, Colorado 37	1.75
Oats, Colorado 37, Registered	2.00
Oats, Bliss Side	1.75
Oats, Bliss Side, Registered	2.00
Buckwheat Silverhull	4.00
Buckwheat Japanese	4.00
Flax, Winona Wilt Resistant	4.00
Speltz or Emmer	2.50

### Miscellaneous

Peas, San Luis Valley (Stock)	3.75
Peas, Large White Marrowfat	6.00
Peas, Southern Blackeye	5.50
Peas, Whip-Poor-Will Cow Peas	7.00
Soy Beans, Early Yellow	4.50
Rape, Dwarf Essex	7.00
Vetch, Hairy or Sand	12.50
Vetch, Hungarian (Spring)	8.50
Sunflower, Mammoth Russian	8.00
Peanuts, White Spanish	14.00
Peanuts, White Jumbo	16.00

### Seed Potatoes

Irish Cobblers	2.50
Rural New Yorker	2.50
Early Ohios	3.00
Early Ohios, Minnesota	4.00
Red McClure's	2.50
Burbanks	2.50
Bliss Triumphs	2.50

### Fertilizers

Sheep Manure (Pulverized) Per 100 lbs.	1.25
500 lb. lots at \$1.15; 1000 lb. lots at \$1.05; 2000 lb. lots at \$1.00.	
Super Phosphate, 20 %	
125 lb. bags, \$3.75 per sack; 500 lbs. for \$13.75; ton lots, \$50.00.	
Triple Superphosphate, 45 %	
125-lb. bags, \$4.50 per sack; 500 lbs. for \$16.00; ton lots, \$60.00.	
Swift's Red Steer—Analysis 4-12-4	
100-lb. bags, \$3.25 per sack; 500 lb. lots for \$15.00; ton lots, \$52.50.	
Swift's Red Steer—Analysis 8-24-8	
100-lb. bags, \$5.00 per sack; 500 lb. lots for \$22.50; ton lots, \$82.50.	
Nitrophoska (Analysis 15-30-15)	
100-lb. bags	8.00
220-lb. bags	15.00

## SPECIAL NOTICE

We wish to thank our many friends for our pleasant business relations the past season, and wish to assure our old customers as well as new ones that the coming season you will be supplied with the same high quality tested seeds at greatly reduced prices. Our motto is "Quality and Prompt Service." Let us have your orders as early as possible, please.

### FREE OFFER

In addition to the extremely low prices quoted in this year's catalogue, on all orders for Vegetable and Flower Seeds, received by us before April 15th, for orders amounting to \$2.50, we will include free 12 blooming size Gladiolus Bulbs, assorted colors. On orders for \$4.00 or more, 25 Gladiolus Bulbs will be included.

### How to Order and Remit—Read Carefully

Use the order sheet enclosed in catalogue if possible. Write your name, postoffice shipping point or nearest express office, your county and state.

**Prepaid Orders**—We prepay postage on all vegetable and flower seeds, in packets, ounces, quarter pounds, and pounds at prices quoted herein, to any point within the fourth postal zone from Denver. We do not prepay postage on Beans, Peas, Corn, Field Seeds, Onion Sets, Potatoes, Bulbs, Fertilizers, Poultry Supplies and Poultry Feeds, unless quoted postpaid. If wanted by parcel post, add postage.

Remittances should be made by POSTAL MONEY ORDER, EXPRESS MONEY ORDER, CERTIFIED CHECK, REGISTERED LETTER, or if so desired we will ship goods C. O. D. to you. Parties buying large quantities of any one variety will be quoted special prices on application.

All prices are NET, and while we do not think there will be any serious change, are made subject to market changes and prior sale.

### Parcel Post Rules and Weights from Denver

	First Pound or Fraction	Each Additional Pound or Fraction
First Zone —Within 50 miles of Denver.....	8c	1.1c
Second Zone —Within 50-150 miles of Denver.....	8c	1.1c
Third Zone —Within 150-300 miles of Denver .....	9c	2c
Fourth Zone —Within 300-600 miles of Denver .....	10c	3.5c
Fifth Zone —Within 600-1,000 miles of Denver .....	11c	5.3c
Sixth Zone —Within 1,000-1,400 miles of Denver .....	12c	7c
Seventh Zone—Within 1,400-1,800 miles of Denver .....	14c	9c

**Weight Limit**—The weight limit is 70 pounds for all zones, and the limit of size is 100 inches in length and girth combined, for all zones.

**Insured**—Packages may be insured against loss, rifling and irreparable damage upon payment of a fee of 5 cents for value not exceeding \$5.00, or 10c for value not exceeding \$25.00, or for 15c for value not exceeding \$50.00, 25c for value not exceeding \$100.00, for each package in addition to postage.

**C. O. D.** fee of 12 cents for collections not to exceed \$5.00, 17 cents for collections not to exceed \$25.00, 22 cents for collections not to exceed \$100.00.

Shipment of 20 pounds or over is cheaper if sent by express beyond third zone.

### We Do Not Warrant Seeds

The fact that no reputable seedsman now warrants seeds in any respect being well known, renders it unnecessary for us to say very much on this point, as it must be apparent to every intelligent person that no seedsman can afford to send out poor, worthless seeds. There could be no more certain way of destroying his business.

The seeds offered in this catalogue have been carefully grown, selected, cleaned and tested for germination, and we believe them to be first class in every respect, but we cannot guarantee the crop, as too many conditions enter into it; therefore, we give no warranty, express or implied, as to description, purity, productiveness or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop.

**THE ROCKY MOUNTAIN SEED COMPANY**

**1325 15TH STREET**

**DENVER, COLORADO**

# Vegetable Seeds for Critical Planters

## Artichoke

(Articiocca, Alcachofa, Artischoke)

The Artichoke is grown for its edible blossoms. It is a perennial but requires renewing every two or three years. The Jerusalem Artichoke, so called, belongs to a different family.

**LARGE GREEN GLOBE**—Perennial, large flowering heads of exquisite and unique flavor. A prized delicacy of rapidly growing popularity. Matures second year; not hardy in the North. Postpaid: Pkt., 10c; oz., 40c; 1/4 lb., \$1.40; lb., \$4.75.

## Jerusalem or Root Artichoke

**CULTURE**—Cut, plant and cultivate the same as potatoes. May remain in ground all winter; not affected by cold weather. 400 to 500 pounds will plant an acre.

The tubers are used for cooking and stock feeding. Ready for shipping after March 15th. Not Postpaid: lb., 15c; 10 lbs., \$1.00; 100 lbs., \$4.00. By parcel post, add 5c per pound for postage.

## Asparagus

(Sparagio, Esparrago, Spargel)

**CULTURE**—One ounce for 300 roots. Asparagus Seed is sown in the spring. The earlier the better after frost is out of the ground and the soil in good workable condition, not sticky. Scatter the seed an inch apart in drills 2 to 3 feet apart and cover with about 3/4-inch of soil. Keep cultivated, well-watered and free from weeds.

**MARY WASHINGTON**—A recently developed, heavily productive rust-resistant strain which produces large, deep green sprouts of the highest quality. Postpaid: Pkt., 10c; oz., 15c; 1/4 lb., 50c; lb., \$1.50.

**EARLY GIANT ARGENTEUIL**—This is an early variety, very vigorous and rust-resisting, which produces an abundance of heavy dark green shoots. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c.

**BONVALLET'S GIANT**—An improved Palmetto producing stronger and more vigorous shoots. Extremely rust-resisting and comes into bearing sooner and bears longer in the season than any other variety. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c.

**CULTURE**—Beans can be planted with safety any time from May 1st to August 1st. They do better in light, loamy soil, but will thrive well in any good soil. Sow in rows 2 1/2 or 3 feet apart; 1 lb. will sow 100 feet of drill; 60 to 90 lbs. to the acre.

## Garden Beans

(Faginolo, Habichuelas, Bohnen)

May 1st to August 1st. They do better in light, loamy soil, but will thrive well in any good soil. Sow in rows 2 1/2 or 3 feet apart; 1 lb. will sow 100 feet of drill; 60 to 90 lbs. to the acre.

### Green Podded Bush Beans

**BOUNTIFUL**—A very early desirable home and market garden sort. Plants large, thrifty and prolific, pods light green, flat, thick, fleshy stringless brittle and tender. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.25; 100 lbs., \$13.50.

**ASGROW VALENTINE**—This stringless Black Valentine retains the good qualities of Black Valentine and adds stringlessness. It is early, reaching picking stage in 49 days. Plant is very hardy, upstanding, dark green and very prolific. Pods are 6 1/2 to 7 inches long, oval-round, nearly straight, meaty, strictly stringless, slight fiber, of fine quality and delicate flavor. Seeds are jet black. It is very prolific, free from disease. Good for home and market garden use and for shipping. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 35c; 10 lbs., \$2.50. Not Postpaid: 25 lbs., \$4.50; 100 lbs., \$14.50.

**RUBY DWARF HORTICULTURAL**—Prolific; stringless and pods of good length, light green, heavily splashed with bright red. Used both as a snap and shell bean. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.50; 100 lbs., \$14.00.

**BROAD WINDSOR (Fava or Horse Bean)**—Stalk erect, strong and shrubby. The bean is large, broad and flat. Should be planted early, and is best green shelled. An English variety. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; 1 lb., 35c; 10 lbs., \$2.75. Not Postpaid: 25 lbs., \$5.00; 100 lbs., \$16.50.

**BURPEE'S STRINGLESS GREEN POD**—An extra early, round-podded prolific sort, bearing abundantly, long bright green stringless pods of excellent quality. Price Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.00; Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$12.50.

**GIANT STRINGLESS GREEN POD**—Round, thick stringless pods of fine quality; very early; one of the best round-pod green beans. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.00. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$12.50.

**NEW STRINGLESS GREEN POD**—Also called Tendergreen. An outstanding green podded bush bean of highest quality. Splendid for home and market use as well as for canning. Plants are large, erect, prolific, with large dark green leaves. 51 days from planting to eating stage; rather concentrated season in pod development. Pods are 5 1/2 to 6 1/2 inches long, nearly straight, round, absolutely stringless and fiberless, fleshy, smooth and very attractive. Dry seed is brownish black, mottled with light fawn. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 35c; 10 lbs., \$2.50. Not Postpaid: 25 lbs., \$4.50; 100 lbs., \$14.50.

**FULL MEASURE**—Round pods; very prolific; medium early and of finest quality. On this account it is especially valuable for the home garden. We consider this one of the best round podded green varieties. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.50; 100 lbs., \$13.50.

## Asparagus Roots

**CULTURE**—A bed 12x40 feet requires about 100 roots. 5,000 roots will plant an acre. Select good loamy soil well enriched with manure and a commercial fertilizer, which carries a large per cent of potash. Plow deep. Make a trench 8 inches deep, set plants 9 to 12 inches apart. For field culture, place rows 4 feet apart. 50 to 100 plants are about right for a family garden.

Asparagus should not be cut the first year as the following season's crop is dependent upon good vigorous crowns and roots. Good cultivation should be given all summer, and the tops cut away and removed from the bed after they mature. Soil should be given a good fall working to the depth of four inches. In the spring start cultivation early covering the whole surface, put on a good mulch of rotten manure.

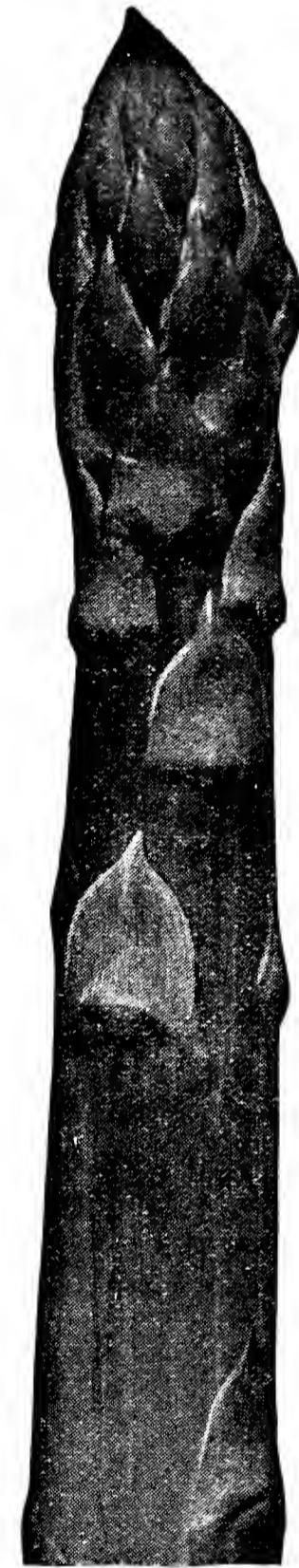
Asparagus roots not postpaid: 1 year old roots:

	Doz.	100	1,000
<b>EARLY GIANT ARGENTEUIL</b>	...\$ .40	\$1.50	\$8.00
<b>BONVALLET'S GIANT</b> .....	.40	1.50	8.00
<b>MARY WASHINGTON</b>	.50	1.75	10.00

Not postpaid: 2 year old roots:

	Doz.	100	1,000
<b>EARLY GIANT ARGENTEUIL</b> ...\$ .50	\$1.75	\$9.50	
<b>BONVALLET'S GIANT</b> .....	.50	1.75	9.50
<b>MARY WASHINGTON</b>	.60	2.00	11.50

If ordered by parcel post add postage as follows: 5c per dozen; 25c per hundred; \$1.50 per thousand.



Mary Washington

## Beans—(Continued)

### Yellow Podded Bush Beans

**DAVIS WHITE WAX**—Medium early. Plant large and thrifty. Pods uniform and attractive; 6 inches long, thick, oval, fleshy and tender when young but become somewhat fibrous and stringy. Seed white, excellent for baking. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.25; 100 lbs., \$14.00.

**IMPROVED GOLDEN WAX**—A medium early variety, and a heavy cropper. Vines of vigorous, bushy growth, with good rust resisting nature. The pods are golden yellow, fleshy and solid, brittle, waxy texture, and have an exquisitely rich butter flavor. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$13.50.

**PROLIFIC EARLY BLACK WAX**—Of dwarf, bushy growth, and very prolific, pods 4 to 5 inches in length, usually curved, quite round, meaty, brittle and stringless; deep golden yellow, of excellent flavor. Postpaid Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.25; 100 lbs., \$13.50.

**PENCIL POD BLACK WAX**—We consider this the best round pod wax bean both for home use and market. The pods are 6 to 7 inches long, straight and as round as a pencil. The pods are clear yellow in color, very brittle, stringless and of the finest quality. Matures early and the plant is vigorous and productive. The seed is black. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.25; 100 lbs., \$13.50.

**ROUND POD KIDNEY WAX (Brittle Wax)**—This is the most popular wax podded bean grown. Growth dwarf, spreading, very early and productive. Pods long, round, yellow, brittle and stringless. A most desirable bean for the home, market gardeners and canning. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.50; 100 lbs., \$14.00.

### Bush Lima Beans

**BURPEE'S IMPROVED**—This strain of Burpee's Bush Lima has beans of larger size and deeper green color than the old strain and the vines are more true to the bush form with fewer runners. The beans are both larger and thicker than the old form, and the pods are also larger. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 35c; 10 lbs., \$2.75. Not Postpaid: 25 lbs., \$5.00; 100 lbs., \$17.00.

**FORDHOOK**—The best of the "Potato" Limas. The pods are large and the beans are very thick and plump, of the finest quality and deep green in color. The vines are vigorous and productive and the beans mature early. It is the most profitable variety to raise for market where the beans are sold in the pods. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 40c; 10 lbs., \$3.00. Not Postpaid: 25 lbs., \$6.25; 100 lbs., \$21.00.

**HENDERSON'S BUSH LIMA**—Small, early and prolific; not of quite as fine quality as Burpee's Bush and Fordhook, but much hardier, earlier, and more easily raised. This variety is used largely by canners to produce "Baby Limas." Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$12.50.

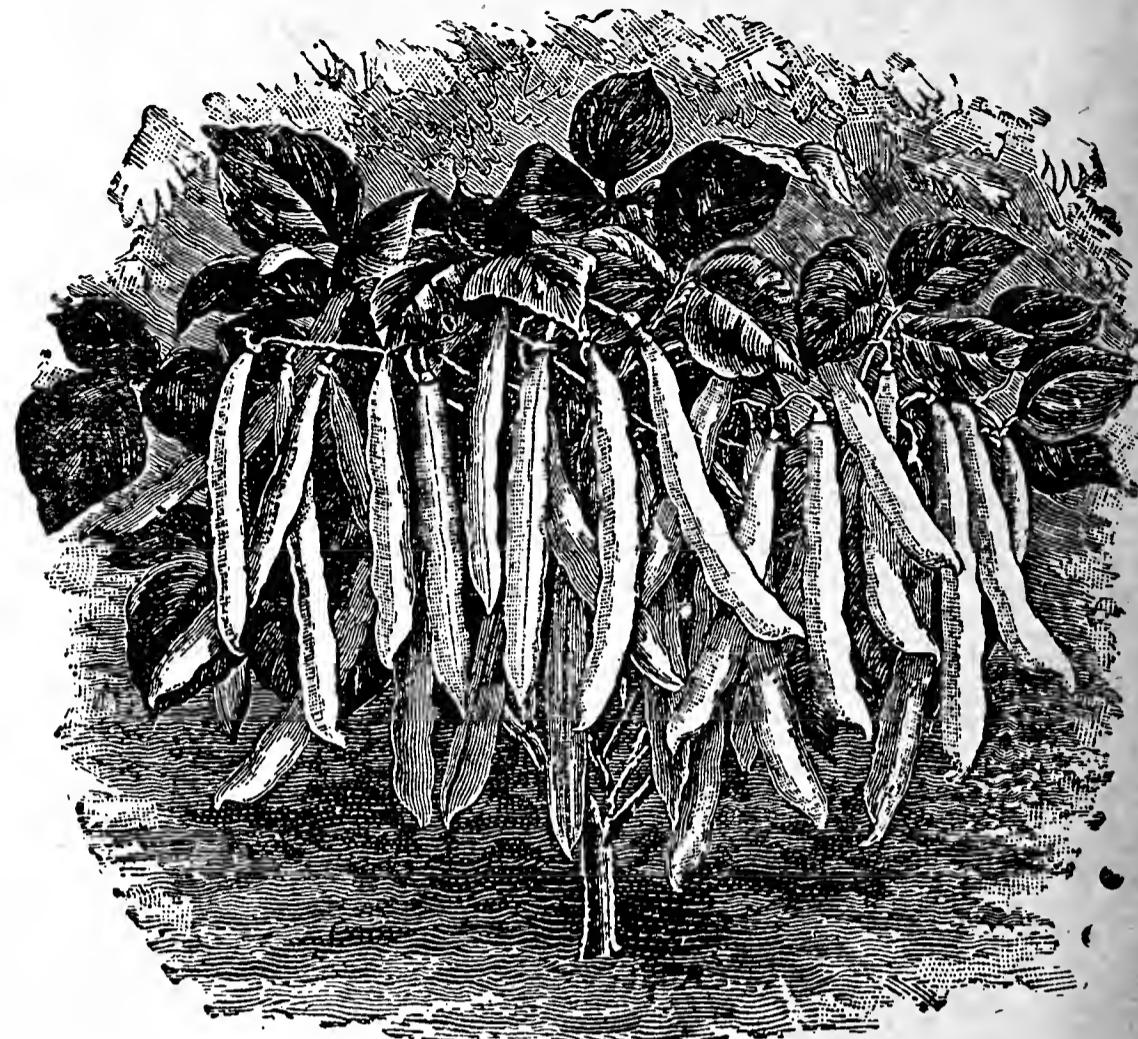
**CALIFORNIA CREAM BUTTER BEANS**—The bean is round and oblong, similar in shape to the Dwarf Horticultural, only three or four times as large, with the peculiar flavor and cooking qualities of the Lima; may be cooked green or shelled. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 35c; 10 lbs., \$2.50. Not Postpaid: 25 lbs., \$4.50; 100 lbs., \$15.50.

### Pole Beans

**KING OF THE GARDEN (Lima)**—Vigorous grower, pods containing five to six large beans, which are of fine quality. The vines grow strong and yield heavily. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 35c; 10 lbs., \$2.50. Not Postpaid: 25 lbs., \$4.50; 100 lbs., \$15.00.

**KENTUCKY WONDER OR OLD HOMESTEAD**—An old favorite, with long, fleshy, deep, saddle-backed pods. Very prolific, producing an abundance of fine, crisp beans until late in the season. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$12.50.

**KENTUCKY WONDER WAX**—Very similar to the Green Podded Kentucky Wonder except that the pods are of a golden yellow color. Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 40c; 10 lbs., \$3.00. Not Postpaid: 25 lbs., \$6.00; 100 lbs., \$18.00.



Improved Golden Wax Beans

### Borecole-Kale

(Cavoloverde, Colsin Cogollo, Blatterkohl)  
GERMAN GREENS

One ounce of seed will produce 3,000 plants.

**DWARF CURLED SCOTCH**—A finely curled spreading variety. The plant is very hardy. The leaves are long and of an attractive bright green color. Is used for garnishing or cooked as greens. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c.

**SIBERIAN**—Dwarf growth; bluish green leaves. Sow in September, in rows a foot apart, and cultivate the same as spinach. Very hardy and makes an excellent spring greens. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c.

### Broccoli

(Brocoli, Brocoli, Spargelkohl)

**CULTURE**—Belongs to the same family as the cauliflower, but of a little coarser texture. More hardy and therefore better adapted to a wider range of conditions. Sow the seed in the same manner as for late cabbage, in May, and transplant in June or July, in very rich soil about 2 1/2 by 1 1/2 feet apart.

**ITALIAN GREEN SPROUTING**—A new and distinct variety of the sprouting type. It forms a large head consisting of a cluster of bluish green flower-heads. When this central head is removed the plant develops numerous lateral sprouts, each of which produces a small head. These are cut, leaving about 6 inches of the stem, and are tied in bunches for market. Both stems and heads are cooked and served like cauliflower. Ready for market in about 90 days. Our stock comes direct from an Italian grower. Postpaid: Pkt., 10c; oz., 50c; 1/4 lb., \$1.50; 1/2 lb., \$2.75; lb., \$4.75.

### Brussels Sprouts

(Cavolo di Brusselles, Col de Bruselas, Rosenkohl)

**CULTURE**—Used in the fall and early winter and by some considered more tender and delicious than any cabbage. Plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. The culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow.

**LONG ISLAND IMPROVED**—We have found this strain very desirable in that it will produce sprouts under less favorable conditions than any variety we have ever tried. The plants are of dwarf habit but furnish a large yield of sprouts of excellent quality. Postpaid: Pkt., 10c; oz., 20c; 1/4 lb., 60c; 1/2 lb., \$1.00; lb., \$1.75.



## Table Beets

(Barbietola, Remolacha, Salatruben)

**CULTURE**—Sow 2 ounces to 100 feet of drill; 5 to 6 pounds per acre. Beets do best in rich, sandy loam, but may be grown in any good soil. The seed should be sown in the spring as soon as ground can be worked, in rows from 12 to 30 inches apart. As soon as the plants are well up they should be thinned to 4 or 5 inches in the row. The seed should be covered to the depth of about an inch.

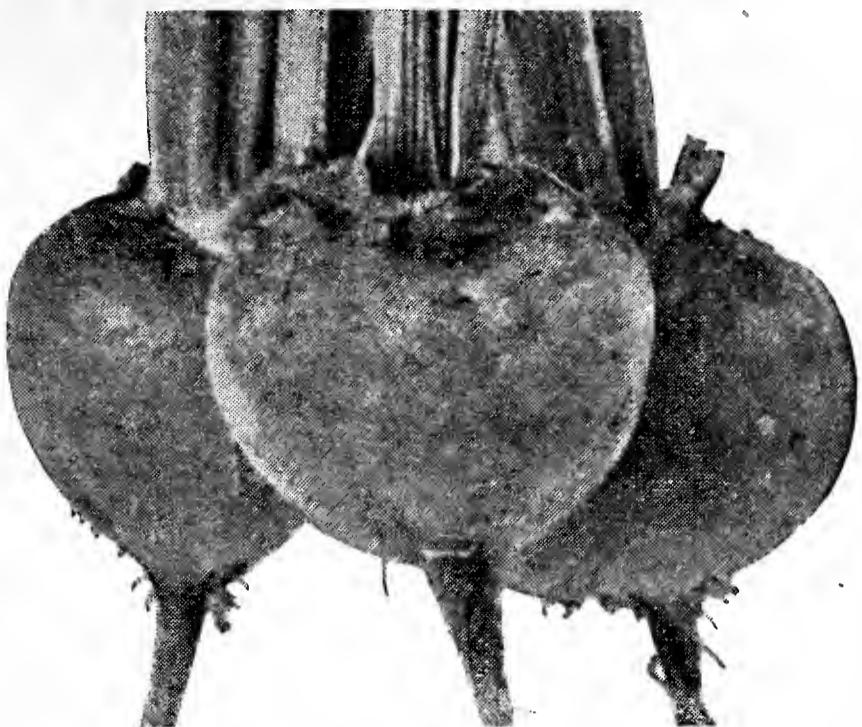
For a succession of young beets during the summer plant every two weeks during spring months. Beets for winter storage should be sown in late summer.

**DETROIT DARK RED (Special Strain)**—This variety is the best for market and home garden and also the best sort for canning. The beets are perfectly round or globe shaped with small top and slender tap root. The color is deep red with but faint defined rings which disappear entirely when the beet is cooked. The quality is exceptionally fine, the young beets being very sweet and without toughness. Postpaid: Oz., 15c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 55c; lb., \$1.00; 10 lbs., \$9.00.

**DETROIT DARK RED (Standard Stock)**—One of the most popular second early or main crop varieties. Roots round, smooth, dark, blood red and of fine quality. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.50.

**CROSBY'S EARLY EGYPTIAN (Special Strain)**—This special selection is a decided improvement over the regular Strain of Crosby's Egyptian. In producing this strain, selection is made not only for uniform shape, but also for dark color and extreme earliness. It is much darker than the regular Crosby's Egyptian and matures more evenly. It is one of the best all-year-round varieties and is especially desirable for growing under sash. Postpaid: Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 55c; lb., \$1.00; 10 lbs., \$9.00.

**CROSBY'S EARLY EGYPTIAN (Standard Stock)**—A good standard stock of Crosby's Early Egyptian Beet. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.50.



Beet, Detroit Dark Red

**EXTRA EARLY FLAT EGYPTIAN**—Very early but very little later than Crosby's Egyptian. The shape is more flat. Dark blood-red, medium size, tender and sweet. Good for forcing. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.50.

**IMPROVED EARLY BLOOD TURNIP**—This splendid beet is early, and of extra fine quality. The color is a rich dark red, and shape is globular. It is free from side or fibrous roots, being always smooth. It is excellent for a main or summer crop, or for use in winter, as it is a good keeper. Tender, sweet and crisp, and is in every way the standard sort for the home gardener. Ready for use in 45 days. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.50.

**EARLY MODEL OR EARLY WONDER**—A fine selection from Crosby's Egyptian, being a little smaller in size. Average more full on the bottom and come a little earlier. It is a turnip-shaped variety of very uniform type and is always smooth. Flesh is a beautiful deep red color, more uniform than Crosby's, and is of excellent quality. Postpaid: Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 55c; lb., \$1.00; 10 lbs., \$9.00.

## Mangels and Sugar Beets

**CULTURE**—Sow 8 to 10 pounds per acre. Sow in rows  $2\frac{1}{2}$  to 3 feet apart as soon as the ground can be thoroughly worked. Cover seed about 1 inch, making ground firm over the seed. When 4 inches high, thin to 8 inches apart. They may be buried in pits when roots are thoroughly dry.

**KLEIN WANZLEBEN (Sugar Beet)**—This is the beet grown so largely throughout the West for the sugar factories; it is also one of the greatest milk-producing roots known. While the yield is perhaps not equal to the largest Mangel, yet every stock-raiser should plant liberally of this fine sort. Contains the greatest amount of sugar of any. Postpaid: 1 oz., 10c;  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; lb., 45c; 10 lbs., \$3.50. Not Postpaid: 25 lbs., \$6.25; 100 lbs., \$22.00.

**MAMMOTH LONG RED**—This variety has produced the largest yield of any kind of mangel. The quality of the roots for feeding is high. The roots grow very large and keep well. They are quite long, light red in color and grow well out of the ground so are easily harvested. Postpaid: 1 oz., 10c;  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; lb., 45c; 10 lbs., \$3.50. Not Postpaid: 25 lbs., \$6.25; 100 lbs., \$22.00.

**GOLDEN TANKARD**—Roots oval in shape, bright yellow outside and the flesh is yellow all the way through. The Mangels are large, easily harvested and of high food value. We have a very fine selected strain of this variety. The roots grow uniform in shape and the flesh is of a deep yellow color. Postpaid: 1 oz., 10c;  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; lb., 45c; 10 lbs., \$3.50. Not Postpaid: 25 lbs., \$6.25; 100 lbs., \$22.00.

**DANISH SLUDSTRUP**—Sludstrup is considered the best of all mangels. It produces the heaviest tonnage, contains the largest per cent of nutriment of any Mangel on the market today. In color it is reddish yellow, and of a distinct type. It is very hardy, grows well above ground and is easily harvested. Postpaid: 1 oz., 10c;  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; lb., 45c; 10 lbs., \$3.50. Not Postpaid: 25 lbs., \$6.25; 100 lbs., \$22.00.

**GIANT HALF SUGAR**—This beet combines the large size of the Mangel with the great feeding value of the Sugar Beet. The flesh is white, crisp and very sweet, and grows well above the ground. Postpaid: 1 oz., 10c;  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; lb., 45c; 10 lbs., \$3.50. Not Postpaid: 25 lbs., \$6.25; 100 lbs., \$22.00.



Danish Sludstrup

## Swiss Chard Or Spinach Beet

(Bieta, Bleda o Acelga, Beisskohl)

**CULTURE**—Swiss Chard is a beet grown for its leaves. The midrib when boiled makes delicious greens, or the leaves may be boiled and served as spinach. Sown in the spring, the leaves are soon ready to eat and will continue to grow all through the summer and fall.

**LUCULLUS**—A new variety with curled leaves like a Savoy Cabbage. The plant grows nearly two feet high and the stem and leaves are very large and of fine quality. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.50.

**DARK GREEN**—Leaves broad, upright in growth, very dark green, savoyed, with broad white midrib. This variety, on account of its giant size and pleasing deep green color, will probably supersede other sorts. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 45c; lb., 85c; 10 lbs., \$7.50.

## Cabbage

(Cavolo Cappuccio, Colrepo, Kopfkohl, Kraut)

**CULTURE**—One ounce of seed will produce 3,000 plants; four ounces, one acre. To grow cabbage successfully, first secure good seed, as the quality of the seed used is of the greatest importance. A heavy, moist, rich loam is most suitable. The ground should be well fertilized, deeply plowed (fall plowed if possible), with frequent and thorough cultivation. For early use sow seeds of the early variety in hot beds the latter part of January or first of February. For second early, sow in hot bed or out of doors if climate permits in March and April. For late varieties sow outside in April and May. The early sowings in hot beds should be ready to transplant to the field in 6 to 8 weeks from the time of sowing. The late outside sowings should be ready to transplant to the field in from 5 to 6 weeks from the time of sowing. In transplanting to the field it is important that plants be set down to the first leaf, so that the stem may not be injured in case of frost. Press the dirt down tightly around the stem, but be careful not to cover the heart of the plant.

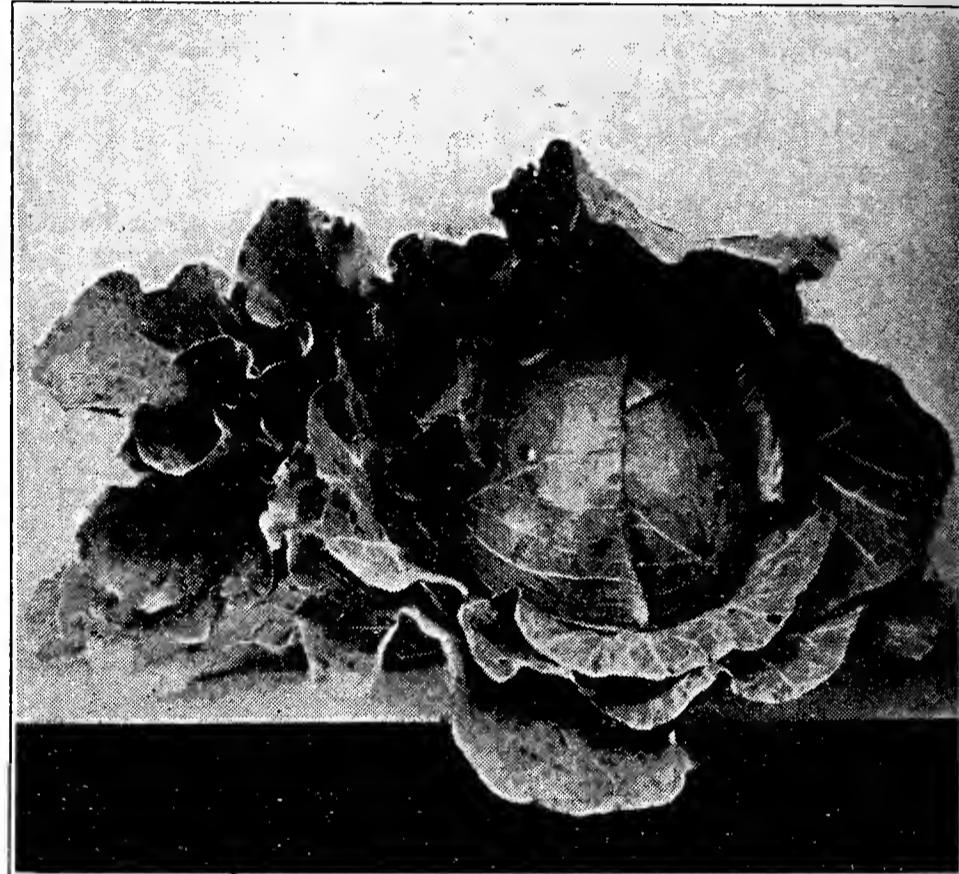
**EARLY JERSEY WAKEFIELD**—The standard early variety. Heads pointed, of medium size and very hard. Our strain is particularly fine, the heads being very uniform and early. **Postpaid:** Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.00; lb., \$1.75.

**EARLY WINNINGSTADT**—A popular sort for the garden, as it remains in good condition for a long time. Heads pointed, medium size, hard and of a dark green color. **Postpaid:** Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.00; lb., \$1.75.

**EARLY DWARF FLAT DUTCH (STEIN'S)**—An excellent large, early flat variety, producing solid heads that mature very early. The stem is short and it has comparatively few outer leaves. Much earlier than Late Flat Dutch. **Postpaid:** Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.00; lb., \$1.75.

**EARLIEST OF ALL (EUROPEAN MARKET)**—This variety resembles the Copenhagen Market in shape, but is smaller in size, more solid and fully ten days earlier. The plant is dwarf and compact, producing medium sized heads, fine for market or home use. The earliest round head variety. **Postpaid:** Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c;  $\frac{1}{2}$  lb., \$1.60; lb., \$3.00.

**GOLDEN ACRE (DANISH GROWN SEED)**—This very fine new sort is of Danish origin and is especially valuable for the market grower, as it produces heads fully a week to ten days ahead of the earliest strains of Copenhagen Market. It is very uniform—almost every head can be cut at the same time. The head is medium size, quite round, and is surrounded by a few small outer leaves, thus permitting close planting. It is very firm, will stand in the field a long time before bursting, and is the best shipping cabbage on account of its even, medium sized heads. **Postpaid:** Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00;  $\frac{1}{2}$  lb., \$1.75; 1 lb., \$3.50.



Copenhagen Market

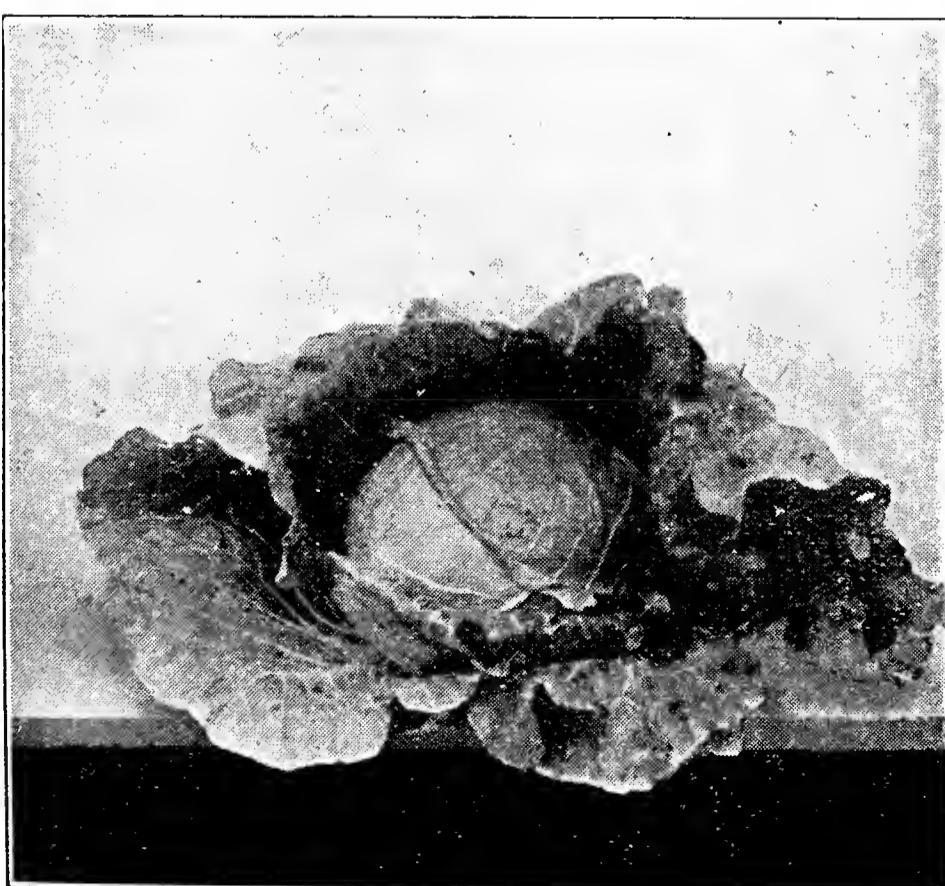
**COPENHAGEN MARKET**—A very early round head cabbage nearly as early as Wakefield and has larger heads. As round as a ball, very compact, with few outside leaves. Heads uniform, practically every plant making a good, firm head. This is a profitable cabbage to grow for market and an excellent early variety for the home garden. This variety is largely grown for kraut and is excellent for this purpose. The heads are of fine quality, tender and without coarseness. **Postpaid:** Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 80c;  $\frac{1}{2}$  lb., \$1.50; lb., \$2.75.

**GLORY OF ENKHUIZEN**—This second early variety is very sure heading and of excellent quality. The plants are of vigorous growth, with large, rather spreading outer leaves which are noticeably curved and frilled. The heads are globular or very nearly round, very solid and of large size for so early a variety. **Postpaid:** Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 75c;  $\frac{1}{2}$  lb., \$1.25; lb., \$2.00.

**DANISH ROUND HEAD OR SHORT STEM HOLLANDER**—This is the most popular of all varieties for fall and winter use. The seed we offer was grown on Amager Island, Denmark, and is not only genuine, but also of the highest standard of quality. **Postpaid:** Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 75c;  $\frac{1}{2}$  lb., \$1.25; lb., \$2.25.

**DANISH BALLHEAD SHORT-STEM**—This splendid variety is well known for its remarkable solidity and grand keeping qualities. The heads are very heavy and superb in quality. The extra tonnage that can be produced in limited space will be appreciated by all growers. **Postpaid:** Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 75c;  $\frac{1}{2}$  lb., \$1.25; lb., \$2.25.

**EVERGREEN HOLLANDER (Short Stem)**—By selecting from the old strain of Short Stemmed Hollander cabbage, the greenish, most perfect short-stemmed heads, and by carefully selecting and growing these for a number of years, has developed a strain of greener cabbage than the old types. This type is known as "Green Hollander" Short Stem Cabbage. **Postpaid:** Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 90c;  $\frac{1}{2}$  lb., \$1.60; lb., \$3.00.



Golden Acre

**Cabbage—Continued**

**MARION MARKET (Yellows Resistant)**—This variety was developed from Copenhagen Market and is very highly resistant to the yellows. It matures about ten days later than the early strains of Copenhagen Market and produces a much larger plant. The heads are practically round, very hardy and stands shipment well. The quality is excellent. **Postpaid: Pkt., 10c; oz., 30c; 1/4 lb., \$1.00; 1/2 lb., \$1.75; lb., \$3.25.**

**WISCONSIN ALL SEASONS (Yellows Resistant)**—This is the hardiest of all the flat-head varieties and is an excellent kraut cabbage. Wisconsin All Season stands unfavorable conditions of drought and hot weather unusually well. It is a very choice variety for the home garden for late summer and early fall use. **Postpaid: Pkt., 10c; oz., 30c; 1/4 lb., \$1.00; 1/2 lb., \$1.75; lb., \$3.25.**

**WISCONSIN No. 8**—A yellow resistant cabbage, developed from the Hollander, and is quite similar to that variety in most other qualities. It retains all the solid heading, good keeping and productive qualities of its parent and in addition is not affected by the yellow rot. **Postpaid: Pkt., 10c; oz., 30c; 1/4 lb., \$1.00; 1/2 lb., \$1.75; lb., \$3.25.**

**PREMIUM LATE FLAT DUTCH**—Of the flat head varieties, this large-heading sort is the most popular. No other cabbage of this class is so universally planted. It is a low-growing variety, heads large, bluish green, round, solid, broad and flat on top. A sure header and a good keeper. Most popular cabbage for kraut purposes. **Postpaid: Pkt., 5c; oz., 20c; 1/4 lb., 60c; 1/2 lb., \$1.00; lb., 1.75.**

**PERFECTION DRUMHEAD SAVOY**—The best large Savoy. Heads large, solid, almost round; leaves densely crumpled. It is surer to head than many other sorts, and is the best for main crop. **Postpaid: Pkt., 5c; oz., 25c; 1/4 lb., 75c; 1/2 lb., \$1.25; lb., \$2.25.**



Danish Round Head or Short Stem Hollander

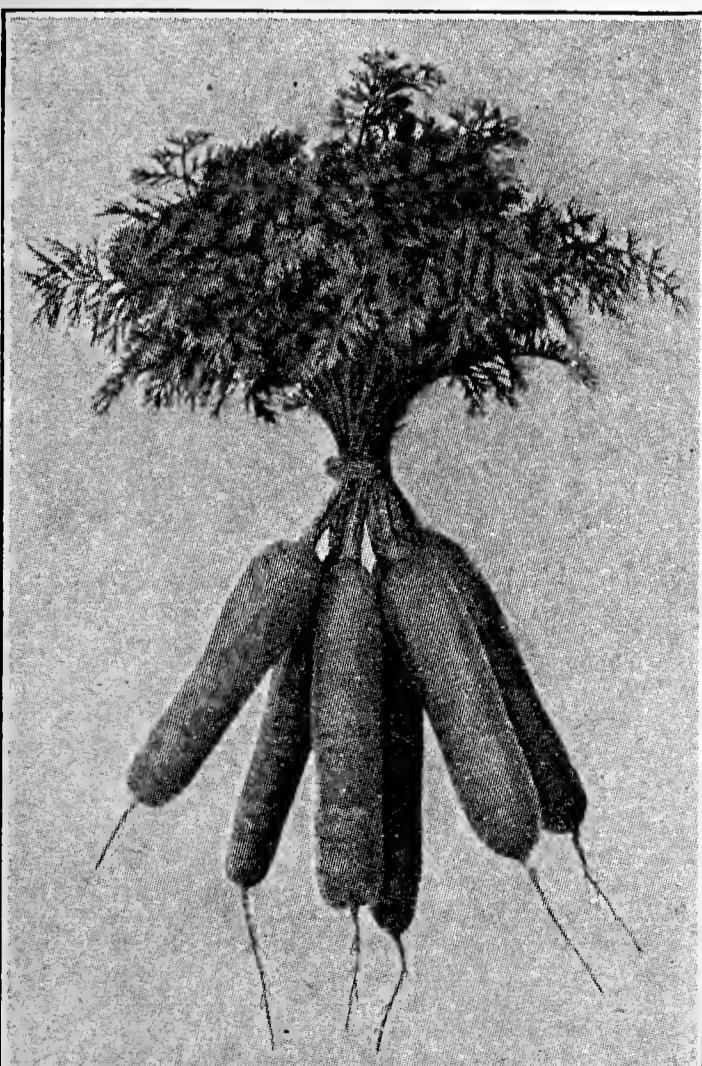
**MAMMOTH RED ROCK**—The best large dark red cabbage. Heads are round, large, very solid and of a dark red color, which is very desirable. The best for main crop. **Postpaid: Pkt., 5c; oz., 25c; 1/4 lb., 75c; 1/2 lb., \$1.25; lb., \$2.25.**

**CHINESE OR CELERY CABBAGE**—Chinese Cabbage is so easily grown that it should be in every garden. It is a dainty table vegetable either shredded as slaw, cooked as other cabbage or trimmed to be eaten as celery. It should be grown like late cabbage, planting in July. When bleached it is almost clear white, and is very crisp and tender. Grows quickly, being ready to eat in 60 days. **Postpaid: Pkt., 5c; oz., 25c; 1/4 lb., 75c; 1/2 lb., \$1.25; lb., \$2.00.**

**Carrots**

(Carota, Zanahoria, Carotten, Mohren)

**CULTURE**—One ounce for 100 feet of drill, 4 pounds for an acre. The carrot, like other root crops, delights in a rich, sandy loam, well tilled. For early crops, sow in spring, as soon as the ground is in good working order, say April or May; for late crops they may be sown any time from the middle of June to July. Sow one-half inch deep in rows 12 inches apart, thinning out to 3 inches between the plants. As carrot seed is slow to germinate, extra precautions must be taken to firm the seed in the soil.



Nante's Half Long

**CHANTENAY**—The most popular carrot for table use and market. The roots grow 5 to 6 inches long, tapering only slightly and quite square or stump-rooted at the bottom. The color is deep orange and the roots are fine grained, smooth as a bottle and of fine quality. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.**

**NEW CORELESS CHANTENAY**—This new carrot is the true shape and type of the Chantenay, but shows red all the way through without the yellow core. It is very attractive for salad and cooking purposes. The roots grow 5 to 6 inches long, are stump-rooted, smooth and fine grained. Exceptionally fine for bunching. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 60c; lb., \$1.00; 10 lbs., \$9.00.**

**DANVER'S HALF LONG**—The roots taper a little more at the bottom than Chantenay and grow about 1 inch longer, being 6 to 7 inches in length. This variety is very valuable for stock feeding, as well as for market. Very heavy yields are often obtained with this carrot. A thousand bushels per acre is not at all unusual. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.**

**IMPERATOR**—This new carrot is of the Danver's Half Long type, averaging about 1 inch longer in length, is a little more cylindrical in shape, has a splendid depth of color with a good-sized top. Roots 7 to 8 inches long, smooth, fine grained and an exceptionally heavy cropper. Fine for bunching or for marketing as a bushel carrot. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 60c; lb., \$1.00; 10 lbs., \$9.00.**

**DANVER'S LUC**—This variety is very similar to the Danver's Half Long, but of a deeper color. It is an early productive variety of fine quality. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.**

**NANTE'S HALF-LONG (Coreless)**—Early. Sweet and fine flavored; almost without a core; very fine grained; excellent for the home garden. One of the finest in quality and handsomest of the medium-sized sorts; about 6 inches long. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 60c; lb., \$1.00; 10 lbs., \$9.00.**

## Carrots—Continued

**OXHEART OR GUERANDE**—A short, thick carrot,  $4\frac{1}{2}$  to 5 inches long and often nearly as large around as it is long. Excellent for table use or bunching for market. Matures early. Can be easily pulled by hand and yields nearly as much as the longer varieties. **Postpaid:** Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 50c; lb., 90c; 10 lbs., \$8.00.

**FRENCH CORELESS**—This carrot resembles the Nantes, but is strikingly longer. It is almost cylindrical, blunt-rooted, fine colored, very melting and sweet. Fine for table use. **Postpaid:** Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 85c; lb., \$1.50.

**EARLY SCARLET HORN**—A carrot of excellent quality, especially valuable for early outdoor planting. The top-shaped root is 3 inches in length and of an orange-red color. The tops are small. The flesh is firm, tender and of a delicate flavor. The best quality. **Postpaid:** Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c;  $\frac{1}{2}$  lb., 60c; lb., \$1.00; 10 lbs., \$9.00.

Danver's Half Long



## Stock Carrots

**IMPROVED LONG ORANGE**—The standard late variety; very handsome and uniform in shape. Roots are very deep orange colored, good flavor, yields very heavily. Requires a deep soil. The roots are smooth, fine-grained and very large, often growing 12 inches in length. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 45c; lb., 80c; 10 lbs., \$7.00.

**LARGE YELLOW BELGIAN**—Grown chiefly for stock feeding. The largest, heaviest cropping and most nutritious variety in cultivation; roots fine, of light orange color, and possessing high feeding properties; good keeper. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.50.

**MASTODON OR WHITE VOSGES**—A large white carrot for stock. The roots grow very large, but being thick and not too long, they can be easily pulled. We think this variety will yield more good, nutritious carrots per acre than any other variety. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.50.



### CULTIVATE YOUR GARDEN OFTEN

You will find that you have a better, more satisfactory garden if you keep it well cultivated. Constant cultivation not only keeps the soil in fine physical condition to retain moisture but it kills the weeds while they are still small. A **PLANET JR.** wheel hoe will help you do this work at a great saving of time and labor. See page 60 for prices on Planet Jr. Garden Tools.

## Cauliflower

(Cavolofole, Coliflor, Blumenkohl)

**CULTURE**—1 ounce produces 3,000 plants,  $\frac{1}{4}$  pound per acre. Cauliflowers delight in a rich, moist soil and in dry seasons should be abundantly watered, especially when heading.

For early crop, sow the seed in the hot bed in January or February. For late crop sow the seed in cold frames or in the open ground in April and May.

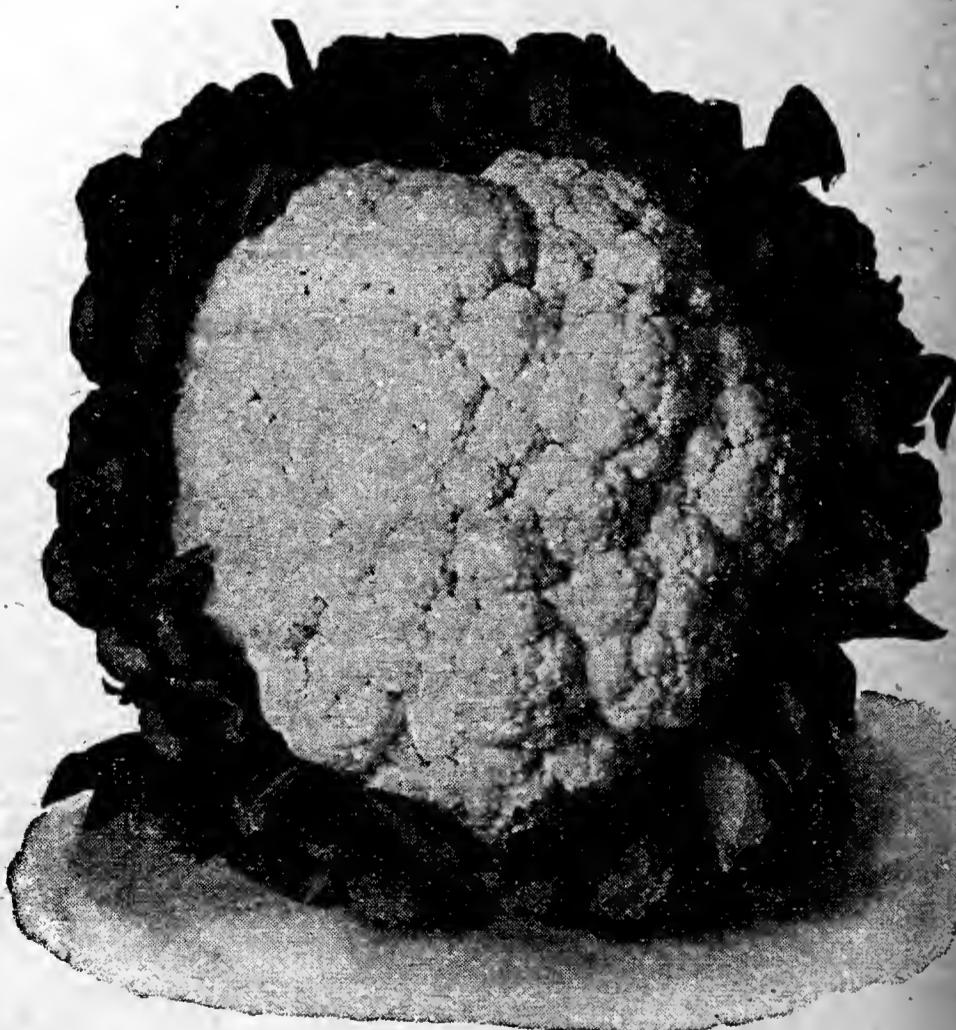
Early Cauliflower is difficult to raise and is not of the best quality as the plants mature when the weather is hot. When the plants are set out about the first of July there should be no difficulty in getting fine, large heads of first class quality, as late plants mature when the weather is cool.

Cauliflower is a rank grower and requires more room than cabbage. Care must be taken that the plants do not become checked in growth as that will cause them to head prematurely. **OUR SEED IS ALL DANISH GROWN. WE DO NOT HANDLE CHEAP CAULIFLOWER SEED.**

**IMPROVED SELF-PROTECTING SNOWBALL**—This is the most improved and best type of Cauliflower on the market today. The originator claims this strain possesses all the good qualities of the Henderson's strain and in addition thereto has a heavier foliage, longer leaves that stand up perfectly straight, and so close together and so crowded that the inner leaves are unable to grow out, thereby forcing them to grow in a whorl over the head, covering it in a natural way, shutting out the sun and light, making it self-protecting. **Postpaid:** Pkt., 25c;  $\frac{1}{4}$  oz., 75c; oz., \$2.00;  $\frac{1}{4}$  lb., \$7.00;  $\frac{1}{2}$  lb., \$13.00; lb., \$25.00.

**HENDERSON'S SNOWBALL**—We have an extra selected strain of the popular type of Cauliflower which we can highly recommend to our market gardeners, and is especially well adapted for planting in our mountain districts. **Postpaid:** Pkt., 15c;  $\frac{1}{4}$  oz., 50c; oz., \$1.50;  $\frac{1}{4}$  lb., \$5.00;  $\frac{1}{2}$  lb., \$9.50; lb., \$18.00.

**EARLY COPENHAGEN SNOWBALL**—One of the earliest varieties, a sure header under ordinary favorable conditions. Plants are dwarf and compact, have good foliage, heads are firm and snow white. **Postpaid:** Pkt., 15c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 85c; oz., \$1.50;  $\frac{1}{4}$  lb., \$5.00;  $\frac{1}{2}$  lb., \$9.50; lb., \$18.00.



Cauliflower, Snowball No. 5

**STRAIN No. 5**—This is a very fine improved strain of the true Snowball type. The heads are large, solid, snow white and with no protruding leaves when well grown under favorable conditions. The plants make a strong vigorous growth. The leaves curl over the heads so as to protect them from the sun. Recommended for second early and late crop planting. Some of our largest Cauliflower Growers have used this strain for the past three years and it has proven to be the best money-maker for them. **Postpaid:**  $\frac{1}{4}$  oz., 75c;  $\frac{1}{2}$  oz., \$1.25; oz., \$2.25;  $\frac{1}{4}$  lb., \$8.00;  $\frac{1}{2}$  lb., \$15.50; lb., \$30.00.

## Cauliflower—Continued

**STRAIN No. 4**—Strain No. 4 is a newer strain maturing a week to ten days earlier than Strain No. 5. It is of the self-protecting type. Heads very uniformly so the crop can be cut practically all at the same time. Plants vigorous, heads are large, compact and quite uniform in size. Postpaid:  $\frac{1}{4}$  oz., 75c;  $\frac{1}{2}$  oz., \$1.25; oz., \$2.25;  $\frac{1}{4}$  lb., \$8.00;  $\frac{1}{2}$  lb., \$15.50; lb., \$30.00.

**EXTRA EARLY SNOWBALL**—This type seems especially adapted to our climate and soil. Suitable for either early or late planting. Under favorable conditions nearly every plant will make a fine solid head of good size. Postpaid: Pkt., 15c;  $\frac{1}{4}$  oz., 50c; oz., \$1.50;  $\frac{1}{4}$  lb., \$5.00;  $\frac{1}{2}$  lb., \$9.50; lb., \$18.00.

**PRIZEWINNER SNOWBALL**—An early variety of the true Snowball type, which when planted for late or main crop produces large solid snow white heads of finest quality. Postpaid: Pkt., 15c;  $\frac{1}{4}$  oz., 50c; oz., \$1.50;  $\frac{1}{4}$  lb., \$5.00;  $\frac{1}{2}$  lb., \$9.50; lb., \$18.00.

**EXTRA EARLY DWARF ERFURT**—An early market variety, very productive, with large, white, compact heads of good quality. Some prefer it to Early Snowball, as it is remarkable for its reliability in heading. Postpaid: Pkt., 15c;  $\frac{1}{4}$  oz., 50c; oz., \$1.50;  $\frac{1}{4}$  lb., \$5.00;  $\frac{1}{2}$  lb., \$9.50; lb., \$18.00.

**DANISH GIANT OR DRY WEATHER**—This is a fine, large heavy variety that matures later than the Snowball or Erfurt. It is especially adapted for growing in dry localities on account of its large leaves, which furnish a great protection for the heads. The ideal variety for the dry farmer or parties having scarcity of water. Postpaid: Pkt., 25c;  $\frac{1}{4}$  oz., 75c; oz., \$2.00;  $\frac{1}{4}$  lb., \$7.00;  $\frac{1}{2}$  lb., \$13.00; lb., \$25.00.

**DANISH PERFECTION**—This strain is of Danish origin, is very hardy with an abundance of leaves which protect the large solid, snow white head from the sun. It is quick maturing, heads are pure white, solid and firm. May be used for early planting but is specially recommended for the late fall crop. Postpaid: Pkt., 25c;  $\frac{1}{4}$  oz., 75c; oz., \$2.00;  $\frac{1}{4}$  lb., \$7.50;  $\frac{1}{2}$  lb., \$14.00; lb., \$26.00.

### Use Peat Moss

#### To improve the condition of your soil

It is vitally important that flowers, trees, shrubs and vegetables have a constant moisture supply. Granulated Peat Moss when worked into the soil is like billions of tiny sponges which give off moisture to plant roots as they need it. Use it in place of manure. It is much cheaper and more satisfactory. Use it as a mulch on new plantings of evergreens, shrubs, bulbs and perennials. Our new pamphlet tells all about it. Send for the Peat Moss Pamphlet. It is free. Large burlapped bales \$3.50 each;  $\frac{1}{2}$  bales, \$2.40 each, F.O.B. Denver.

## Celery

(Sedano, Apio, Sellerle)

**CULTURE**—One ounce of seed will produce 15,000 plants. Golden Self-Blanching Seed should be sown in hotbeds about March 1st, covering the seed very lightly. Keep the seed-bed moist, giving it plenty of air. Keep the tops of the plants sheared off, which will cause them to grow stockier with better roots. The plants should be ready for planting in the fields by May 10th or 15th, and all should be out by June 15th. When ready for the field, set the plants in double rows 3 or 4 feet apart, and about 8 inches apart in the rows. Care should be taken to press the soil firmly around the roots of the plants. If the roots are very long they should be trimmed off to about 3 inches in length. This will facilitate handling them, and cause the plants to be set in the ground in much better condition. Keep the soil well stirred between the rows and around the plants. A good rule is to plow or work the ground every time it is watered. Great care should be used in watering, or the ground will sour and cause the celery to blight or rust. Celery requires water often, but not a great deal at a time. It should be planted on ground with sufficient fall to permit the water running off quickly. When about ready to harvest, it may be blanched with either boards or dirt, boards being preferable in warm weather, and dirt in cool weather. When desired for winter use, it should not be bleached in the field, as it will bleach sufficiently in the cellar or pit, after being put away.

Giant Pascal seed should be sown from the 1st to the 15th of April in hotbeds, same as the Golden Self-Blanching. Plants should be set in the field from June 10th to July 1st, in single rows, about 8 inches apart in the row, cultivating same as the Golden Self-Blanching. About October 10th or before freezing, it should be trenched and protected from freezing, when it will bleach and be ready for winter use.

**SPECIAL HOME-GROWN PASCAL CELERY SEED**—This season we can supply a very fine strain of Pascal Celery Seed grown for us by one of our local celery growers. It is of dwarf stocky growth, does not develop any soft stalks, nor seeders, and is of the easy blanching type. Postpaid. Pkt., 25c; oz., \$3.00;  $\frac{1}{4}$  lb., \$9.00;  $\frac{1}{2}$  lb., \$16.00; lb., \$30.00.

**SPECIAL HOME-GROWN PASCAL CELERY SEED (Tall Strain)**—This is also local grown Pascal Celery Seed, not as stocky as the above strain, but grows about 6 inches longer stalks, which are very brittle, free from soft stalks and seeders. Postpaid: Pkt., 25c; oz., \$3.00;  $\frac{1}{4}$  lb., \$9.00;  $\frac{1}{2}$  lb., \$16.00; lb., \$30.00.



Giant Pascal

**GIANT PASCAL (French Seed)**—This is by far the best variety for late fall and winter. Its crisp, delicious flavor has made it a favorite with the local trade. Every home garden should grow enough for home use. Postpaid: Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 90c;  $\frac{1}{2}$  lb., \$1.50; lb., \$2.50.

**GIANT PASCAL EXTRA SELECTED STRAIN**—Postpaid: Pkt., 10c; oz., \$1.00;  $\frac{1}{4}$  lb., \$3.00;  $\frac{1}{2}$  lb., \$5.50; lb., \$10.00.

## Celery—Continued

**PARIS GOLDEN SELF-BLANCHING (New Strain)**—The new strain of Golden Self-Blanching Celery we are offering is **French Grown**. Grows about one-fifth taller and more stocky than the ordinary type and therefore should not be planted as close as the "old strain" to make its proper development. It is vigorous, easy blanching and practically rust-resistant. Most of the large celery growers in this section have found it to be the most profitable variety for them to grow. Genuine French Grown Seed. **Postpaid: Pkt., 10c; oz., 75c; 1/4 lb., \$2.75; 1/2 lb., \$5.00; lb., \$9.00.**

**GOLDEN SELF-BLANCHING CELERY (Old Strain)**—More dwarf and compact than the new strain. French grown seed. **Postpaid: Pkt., 10c; oz., 75c; 1/4 lb., \$2.75; 1/2 lb., \$4.50; lb., \$8.00.**

**GOLDEN SELF-BLANCHING (American-Grown Seed)**—Tall Type—**Postpaid: Pkt., 10c; oz., 40c; 1/4 lb., \$1.25; lb., \$4.00.**

**WONDERFUL OR GOLDEN PLUME**—This variety is similar in many respects to Golden Yellow Self-Blanching. It matures fully as early as that variety and in many localities has been found to be more resistant to attacks of blight and rust. The plants are semi-dwarf, stocky and vigorous, growing with very full heart which bleaches quickly to a rich golden yellow color. Of very attractive appearance, superior quality and fine nutty flavor. Recommended as a very profitable variety for growers for either the home or distant markets and also as a desirable sort for the home garden. **Postpaid: Pkt., 10c; oz., 75c; 1/4 lb., \$2.75; 1/2 lb., \$5.00; lb., \$9.00.**

**WHITE PLUME**—Stalks and portions of the inner leaves and heart are white and of good flavor and fine texture. Adapted to fall and early winter use; good keeper up to the holiday season. **Postpaid: Pkt., 5c; oz., 30c; 1/4 lb., \$1.00; 1/2 lb., \$1.85; lb., \$3.00.**

## Celery Plants

We can supply Paris Golden Self-Blanching (New Strain) and Giant Pascal Celery Plants in large quantities. If you are a celery grower and require celery plants for your planting, we shall be pleased to quote you prices. Our plants are grown for us by our best celery growers and plants will be the same as they use for their own crops, thus assuring you plants of the best quality.

## Celeriac or Turnip Rooted Celery

(Sedano-Rapa, Aipo-nabo, Knoll-Sellerie)

**GIANT SMOOTH PRAGUE**—Culture same as celery. The roots are large, almost globe-shaped. The flavor and quality are excellent. After the roots have obtained a diameter of two inches or over they are fit for use. To keep through the winter, pack in damp earth or sand and put in cellar, or leave out of doors and cover with earth and straw like beets and carrots. **Postpaid: Pkt., 5c; oz., 25c; 1/4 lb., 75c; lb., \$2.50.**

## Chicory

An ounce of seed will produce 3,000 roots.

Chicory is used for two purposes. The large-rooted variety is used as a substitute for coffee, the root being dried and ground, while the variety called "Witloof" is used for salad. Both are easily raised from seed.

**LARGE ROOTED OR COFFEE**—The largest rooted variety. **Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00.**

**WITLOOF OR "FRENCH ENDIVE"**—Seed sown in May or June produces roots which, when taken up and placed in sand in a warm, dark place, throw out tender white sprouts which are used as salad. These sprouts are often called "French Endive." **Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.15.**

## Cucumbers

(Cetriolo-Cohombro-Gurken)

**CULTURE**—One ounce of seed will plant 50 hills, 2 pounds an acre. Cucumbers succeed best in warm, moist, rich loamy soil. Plant as soon as danger from frost has passed. In hills about 4 feet apart each way. Prepare the hills by mixing a shovelful of well-rotted manure with soil. Plant the seed about an inch deep, 10 to 12 seeds to the hill. Do not allow any fruit to ripen, as that will cause them to stop bearing. When all danger of insect attack is over, thin to 3 to 4 plants to the hill.

**THE VAUGHN**—This is a splendid variety for forcing and for growing outdoors. Best of all for slicing, uniform size, long and slender. Compared with other Extra Long White Spine Cucumbers; like Davis Perfect, Fordhook, Famous, etc., it is much darker in color, more uniform in size, thinner and more prolific. **Postpaid: Pkt., 5c; oz., 20c; 1/4 lb., 60c; 1/2 lb., \$1.00; lb., \$1.75; 10 lbs., \$15.00.**

**DELTUS**—An excellent, long, slender, dark green variety. The fruits are very uniform in shape and size and bear in great abundance, 10 to 12 inches long. An ideal type for the home garden or as a straight pack variety for shipment to market. Fine for forcing or outdoor culture. **Postpaid: Pkt., 5c; oz., 20c; 1/4 lb., 60c; 1/2 lb., \$1.00; lb., \$1.75; 10 lbs., \$15.00.**

**WOODRUFF'S HYBRID**—This new cucumber, which is of the White Spine Type, has been specially bred for long distance shipping and for market gardeners' use. The color is a rich dark green which it retains for a long time after shipping. It is a main crop variety that will give satisfaction. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 50c; 1/2 lb., 85c; lb., \$1.50; 10 lbs., \$12.50.**

Woodruff's Hybrid

**EARLY FORTUNE**—The finest type of white spine yet produced; very productive and disease-resistant. Fruit 9 inches long, slightly tapering; flesh white. Very firm and crisp, with very few seeds. Color, rich dark green, which does not fade when shipped a long distance. **Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., \$1.00; 10 lbs., \$8.50.**

**DAVIS PERFECT**—Fruits a dark green in color, ten inches or more in length, slender, symmetrical, tapering slightly at both ends. Flesh is crisp, tender and of good quality. The seed cavity is small. The vines very vigorous growing and quite productive. Recommended as one of the best sorts for shipping, as it retains its attractive dark color for a long time after picking. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 45c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$10.00.**

**EARLY WHITE SPINE**—One of the most productive, true to type, and uniform of the White Spine family. Fruit about 7 inches long, rounded at both ends, and of a bright green color. **Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.50.**

**IMPROVED LONG GREEN**—Fruit long, straight and dark green. Excellent for pickling, slicing and market. Our strain is very much superior to the common Long Green. This is a black spine variety and turns yellow when ripe. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 45c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$10.00.**

## Cucumbers—Continued

**STAY GREEN**—Is an extra early strain of the White Spine type. It is a very intense dark green variety, with a green that stays for days after being picked. The cucumbers are from 7 to 8 inches long, very regular in size and shape, very crisp and unsurpassed for slicing. It makes excellent pickles when young. Vines vigorous and productive. Most profitable variety for the market gardener. **Postpaid: Pkt., 5c; 1/4 lb., 30c; 1/2 lb., 55c; lb., \$1.00; 10 lbs., \$9.00.**

**LONGFELLOW**—An excellent, long, slender, dark green variety equally desirable for greenhouse forcing or outdoor culture, and an ideal type for the private garden or as a "straight pack" variety for the market. It measures 12 to 14 inches long by 2 1/2 inches in diameter. A good healthy grower, very productive and is fairly early. **Postpaid: Pkt., 5c; oz., 20c; 1/4 lb., 60c; 1/2 lb., \$1.00; lb., \$1.75; 10 lbs., \$15.00.**

**ROLLISON'S TELEGRAPH (For Greenhouse Forcing)**—An English forcing cucumber, the long green fruits of which measure from 18 to 24 inches in length. A tremendous bearer having very few seeds. **Postpaid: Pkt., 25c; 1/4 oz., \$1.00; oz., \$3.50.**

**THORBURNS' EVERBEARING**—An early and prolific variety. If fruits are kept gathered the vines will continue to bear throughout the season. **Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., \$1.00; 10 lbs., \$9.00.**

**SNOW'S PICKLING**—An early maturing, very small, dark green cucumber; symmetrical, square ended and very popular with growers who want an ideal pickle. **Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 55c; lb., \$1.00; 10 lbs., \$8.50.**

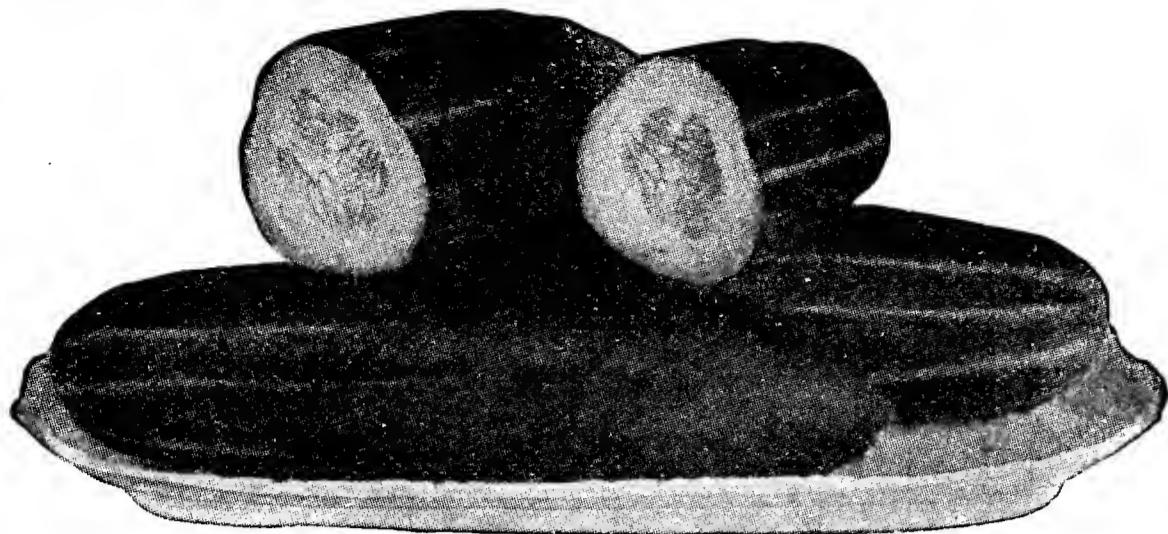
**CHICAGO PICKLING**—Very prolific and one of the most popular kinds for pickles. The young fruit is short, straight, square ended and medium deep green in color. **Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 55c; lb., \$1.00; 10 lbs., \$8.50.**

**BOSTON PICKLING**—This is a very productive variety that is extensively grown for pickles. The vines are vigorous. The fruits are bright green, of medium size, very smooth and symmetrical. The flesh is crisp and tender. **Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 55c; lb., \$1.00; 10 lbs., \$8.50.**

**JAPANESE CLIMBING**—A useful variety for growing on a trellis, wire or other supports. The cucumbers are long, of a dark green color, white flesh, crisp and of good flavor. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$11.00.**

**LEMON**—This little cucumber is not appreciated for the home garden. It has a most delicate flavor, and never gets bitter or unfit for the most demanding taste. The vines are prolific—the fruit is small and always in good condition. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.25; 10 lbs., \$11.00.**

**WEST INDIA GHERKIN**—An extremely small fruited variety grown exclusively for pickles. It has no value for slicing. Is very prickly, but tender and crisp if picked when young. Seed germinates slowly. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.25; 10 lbs., \$11.00.**



Stay Green

## Chives

An onion-like plant used as a salad and for flavoring soups. It also makes an excellent ornamental garden bed edging which may frequently be cut, a new growth of leaves appearing soon after each cutting. The plants grow about 10 inches high. One sowing will answer for about 3 years. **Postpaid: Pkt., 10c; oz., 75c; 1/4 lb., \$2.00.**

## Collards

(Cabu (Col Sin Cogollo), Blatterkohl)

**CULTURE**—Sow the seed thickly in drills in rich ground, transplanting when about 4 inches high; or sow in drills where the plants are to remain and when well started thin to 2 or 3 feet apart in the rows.

**GEORGIA, SOUTHERN OR CREOLE**—This is the white or green-stemmed variety, growing 2 or 3 feet high and forming a large, loose, open head or cluster of leaves with a rather long stem. A frost, if not too severe, will improve rather than injure the quality of the leaves. **Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 45c; lb., 85c.**

## Corn Salad

(Valeriana, Canonigos, Feldsalat)

**CULTURE**—Used for "greens" like spinach or as a salad. Can be sown in the spring and fall. Succeeds best when sown in the early spring and in August. Can be sown in September and wintered like spinach if given a little protection.

**LARGE ROUND-LEAVED**—The best quality. **Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 45c; 1/2 lb., 75c; lb., \$1.40.**

## Cress

(Agretto, Mastuerzo, Garten-Kresse)

**EXTRA FINE CURLED** (also called "Peppergrass"). Leaves finely cut and curled, very handsome and has a pleasant, pungent flavor. Used largely in salads. **Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c.**

**WATER CRESS**—This plant is now used extensively for garnishing and for salads. It can easily be grown on the banks of any small stream, or on land that can be flooded with running water. It succeeds best on streams fed by springs that do not dry up in the summer. The seed should be scattered on the muddy banks in the spring or summer. Water Cress can also be grown in greenhouses for winter use and is a profitable crop.

**IMPROVED BROAD-LEAVED WATER CRESS**—Larger and better than the common variety. **Postpaid: Pkt., 10c; oz., 50c; 1/4 lb., \$1.40; 1/2 lb., \$2.50; lb., \$4.50.**

## Dandelion

(Dentedileone, Dientedeleon, Lowenzahn)

**IMPROVED THICK LEAVED**—Thick leaves and deep green color makes this far superior to the uncultivated plant. It is compact with an upright regular tuft at the center. **Postpaid: Pkt., 10c; oz., 40c.**

## Corn (Sweet or Sugar)

(Mais, Maiz, Mais)

**CULTURE**—One pound will plant 100 hills; 10 pounds an acre. Sweet Corn should not be planted until the ground is warm and danger from frost is past. Corn thrives best on warm, rich soil, and succeeds only when given frequent but shallow cultivation. For a continuous supply, begin planting as early as the season will permit, and plant every ten days or two weeks until July.

**GOLDEN SUNSHINE**—The earliest of the Golden Bantam Type, maturing a week to ten days earlier than that variety. More dwarf in habit than Bantam, with ears 6 1/2 inches long. Containing 12 rows of broad, yellow, sweet grains. Especially desirable for its extreme earliness. **Postpaid: Pkt., 5c; 1/4 lb., 10c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$3.75; 100 lbs., \$12.00.**

**IMPROVED GOLDEN BANTAM**—Golden Bantam has been for many years the most popular and largely planted variety of sweet corn, because of its earliness and unsurpassed flavor. While the old Golden Bantam had an eight-row ear, our Improved Bantam averages twelve rows, and is an inch or two longer. However, it has lost none of its wonderful flavor or earliness. For sweetness and richness of flavor it has no equal. It is a hardy, early maturing variety of dwarf growth. The cob is small but fills out nicely with large deep, cream-colored kernels. **Postpaid: Pkt., 5c; 1/4 lb., 10c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$3.75; 100 lbs., \$12.00.**

**GOLDEN GIANT**—A cross between Golden Bantam and Howling Mob and is one of the few new yellow corns to retain the high quality of its golden parent. In season between Golden Bantam and Bantam Evergreen, of medium growth, with ears 8 inches long, 16 to 18 rowed. **Postpaid: Pkt., 5c; 1/4 lb., 10c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$3.75; 100 lbs., \$12.00.**

**GOLDEN GEM**—This new variety is a recent development by Prof. Yeager of the North Dakota Agricultural College. It is of very dwarf habit, ears 8 rowed, 6 to 8 inches long, of Golden Bantam quality although fully two weeks earlier than Golden Bantam, making it very desirable for home and market use. **Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 35c; 10 lbs., \$3.00. Not Postpaid: 25 lbs., \$5.00; 100 lbs., \$16.00.**

**BANTAM EVERGREEN**—A cross between Golden Bantam and Stowell's Evergreen and a most excellent sort of fine quality. Ears 8 inches long, 12 to 14 rowed; matures with Early Evergreen, grain rather broad and deep, of a rich golden-yellow color. **Postpaid: Pkt., 5c; 1/4 lb., 10c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$3.75; 100 lbs., \$12.00.**

**EXTRA EARLY MAYFLOWER**—Is slightly earlier than Golden Bantam, but not so well known. The stalks are 4 feet high, but the ears are exceptionally long and well filled for such an early corn. The ears average about 7 inches in length and grow very close to the stalk. The grains are tender, sweet, and the eating quality excellent. **Postpaid: Pkt., 5c; 1/4 lb., 10c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$3.75; 100 lbs., \$12.00.**

**EARLY SURPRISE**—A distinct and valuable addition to the Early Sweet Corns. As compared with other good early sorts, it has bigger ears with more even rows which are filled well to the tip. Ears average 8 inches long, have from 10 to 12 rows of deep, broad, pearly white kernels of delightfully sweet flavor which is not surpassed by any other early kind. Sixty per cent of the stalks carry two well-developed ears which are usually placed from 2 to 3 feet above the ground. **Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 35c; 10 lbs., \$2.50. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$14.00.**

**EARLY EVERGREEN**—A valuable sort, maturing a few days earlier than Stowell's. Ears nearly as large, about 8 inches long, 14 to 16 rowed; grains somewhat narrower than Stowell's; very productive and of high quality. **Postpaid: Pkt., 5c; 1/4 lb., 10c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$3.75; 100 lbs., \$12.00.**

**STOWELL'S EVERGREEN**—A favorite with canners and market-gardeners for late use, and especially for the kitchen-garden. Ears large, kernels very deep, tender and of the most delicious sweetness. **Postpaid: Pkt., 5c; 1/4 lb., 10c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$3.75; 100 lbs., \$12.00.**

**EARLY DENVER**—Was developed by Mr. Fred Bunker, who claims it to be the earliest, heaviest yielding sweet corn in existence. Yields of 100 bushels per acre under favorable conditions are not uncommon. Plants are very dwarf



Early Surprise

with 2 to 3 ears to the stalk. Ears are of good size and finest quality. **Postpaid: 1/4 lb., 10c; 1/2 lb., 20c; lb., 35c; 10 lbs., \$2.75. Not Postpaid: 25 lbs., \$5.00; 100 lbs., \$16.00.**

**COUNTRY GENTLEMAN**—Late, very prolific, often 3 ears on a stalk, kernels irregular on the cob; quality very fine. **Postpaid: Pkt., 5c; 1/4 lb., 10c; 1/2 lb., 20c; lb., 30c; 10 lbs., \$2.50. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$14.00.**

**ADAMS' EXTRA EARLY**—Not a sugar corn, but largely grown for early use; hardy, standing early planting. Ears 7 to 8 inches long. **Postpaid: Pkt., 5c; 1/4 lb., 10c; 1/2 lb., 15c; lb., 25c; 10 lbs., \$2.00. Not Postpaid: 25 lbs., \$3.50; 100 lbs., \$10.00.**

**BLACK MEXICAN**—One of the sweetest and best; ears 8 inches long and 8 rowed; grains bluish-black when ripe. **Postpaid: Pkt., 5c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 35c; 10 lbs., \$3.00. Not Postpaid: 25 lbs., \$5.00; 100 lbs., \$16.00.**

## Pop Corn

**CULTURE**—Pop corn is raised the same as field corn. It should be allowed to get thoroughly ripe before cutting. Very easily raised and often proves a profitable crop. 5 to 6 pounds will plant an acre.

**JAPANESE HULLESS OR TOM THUMB**—Owing to the very thin skin on the kernels, this corn when popped, is very tender and almost free from any fibre. The ears are short and thick, while the kernels are small, white and much the shape of White Rice. They pop readily and the popped corn is very tender and of the finest quality. Postpaid:  $\frac{1}{4}$  lb., 10c;  $\frac{1}{2}$  lb., 15c; lb., 25c; 10 lbs., \$2.00. Not Postpaid: 25 lbs., \$3.00; 100 lbs., \$8.50.

**WHITE RICE**—The ears are 6 to 7 inches long and the kernels are pure white and of large size. Yields well and produces a fine quality of pop corn. Postpaid:  $\frac{1}{4}$  lb., 10c;  $\frac{1}{2}$  lb., 15c; lb., 25c; 10 lbs., \$1.75. Not Postpaid: 25 lbs., \$2.50; 100 lbs., \$8.00.

## Eggplant

(Petronciano, BerenJena, Eierpflanze)

**CULTURE**—One ounce will produce 1,000 to 2,000 plants. Seed is of slow germination and requires a moderate amount of heat. Should be started in hotbeds early in March and transplanted to four or six inches apart. Plant out in open ground about May 20th, two feet apart in rows, and three feet between rows. Eggplants are very tender and will not stand frost.

**BLACK BEAUTY**—This is a very handsome, early and prolific variety. While the fruit is as large as New York Improved it matures earlier, and is of a deeper and richer color. The plants are of robust growth and are very prolific. Being earlier than the New York Improved, much larger crops are produced before frost in the North. The strain of this variety we offer is very fine and produces large, handsome fruit. This is the most popular market variety. Postpaid: Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.25; lb., \$4.00.

**NEW YORK IMPROVED (Thornless)**—This is a superb strain of this well-known and popular variety. The fruit grows to the largest size and is of perfect shape and deep purple color. The plants are prolific and of tall, upright growth. Market gardeners will find this the finest strain of New York Improved Egg Plant grown. Postpaid: Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.25; lb., \$4.00.

## Endive

(Indivia, Escarola, Endivien)

**CULTURE**—One ounce will sow 150 feet of drill. One of the best salads for fall and winter use. Endive is not only much used for salads and garnishing, but is also desirable for greens.

For early use sow about April 15th; for later supply sow in July in drills fourteen to twenty inches apart and when well started thin the plants to one foot apart. When nearly full grown tie the outer leaves together over the center in order to blanch the heart of the plant.

**BROAD-LEAVED BATAVIAN (Escarole)**—Large, thick leaves not much curled. Forms a large compact head which blanches pure white and is of fine quality. Postpaid: Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c;  $\frac{1}{2}$  lb., 75c; lb., \$1.25.

**LARGE GREEN CURLED**—A hardy, vigorous-growing variety with bright, deep green leaves. The dense mass of deeply divided leaves formed in the center blanches very readily to rich creamy white. Postpaid: Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c;  $\frac{1}{2}$  lb., 75c; lb., \$1.25.

## Fennel or Fenocchio

**FLORENCE FENNEL** is quite distinct from the common sweet fennel used for flavoring. This variety produces a bulb at the surface of the ground which makes an excellent vegetable with a peculiar flavor. It is grown by sowing the seed in rows 20 inches to 2 feet apart and thinning or transplanting so the plants stand 8 to 10 inches apart in the rows. Sow the seed in rich soil in May or June, and again a month later for fall use. When the plants are half grown drag up earth to them so as to blanch the bulbs. Postpaid: Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., 65c;  $\frac{1}{2}$  lb., \$1.25; lb., \$2.25.

## Garlic

Used for flavoring. The bulbs are set out like onion sets about 4 inches apart in the row, divided into "cloves" or flakes and covered 2 inches deep. When tops die down take up the bulbs and dry in a shady place. Bulbs only. Postpaid:  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; lb., 40c; 10 lbs., \$3.50.

**WHITE SPANISH**—It produces fine large, white grains which, when popped, are fully twice as large as the White Rice. It is a very early variety and a heavy yielder. It is taking the place of smaller pop corn with many large users. Postpaid:  $\frac{1}{4}$  lb., 10c;  $\frac{1}{2}$  lb., 15c; lb., 25c; 10 lbs., \$2.00. Not Postpaid: 25 lbs., \$3.50; 100 lbs., \$9.00.

**NEW GOLDEN GIANT (T. N. T.)**—A new introduction from South America. The grains are yellow. Pops large and of fine quality popping without the hard core. Postpaid:  $\frac{1}{4}$  lb., 10c;  $\frac{1}{2}$  lb., 15c; lb., 25c; 10 lbs., \$2.00. Not Postpaid: 25 lbs., \$3.75; 100 lbs., \$9.00.

## Herbs

### AROMATIC, MEDICINAL, POT

**ANISE**—A hardy perennial of aromatic taste and fragrant smell. Pkt., 5c; oz., 15c.

**BALM**—An annual, cultivated for its seeds and its leaves, which have a fragrant, agreeable scent and a pleasant taste. Pkt., 10c; oz., 25c.

**BORAGE-GURKENKRAUT**—An annual. The leaves are cut and used for a cucumber salad. Beautiful blue flowers. Pkt., 10c; oz., 25c.

**CARAWAY-KUEMMEL**—The seeds are used for flavoring. Pkt., 5c; oz., 15c.

**CATNIP OR CATMINT**—A great favorite among medicinal herbs. Pkt., 10c; oz., 30c.

**CHERVIL**—Annual, used for soups and salads. Pkt., 5c; oz., 15c.

**CORIANDER**—Annual. Its tender leaves are sometimes used for soups and salads. Pkt., 5c; oz., 15c.

**DILL**—Annual. It is cultivated for its seeds which are used medicinally and for flavoring pickles. Pkt., 5c; oz., 15c.

**LAVENDER**—Perennial; cultivated for its fragrant flowers and aromatic leaves. Pkt., 10c; oz., 40c.

**SAGE**—Perennial. Tea made from these leaves is an excellent means of producing sweat. Pkt., 10c; oz., 25c.

**SAVORY**—Annual. Leaves are used for culinary purposes. Pkt., 10c; oz., 30c.

**SORREL**—Broad leaves. Perennial. Used in soups and salads and sometimes cooked like spinach. Pkt., 10c; oz., 20c.

**SWEET BASIL**—Annual. The leaves are used for highly seasoned dishes as well as in soups, stews and sauces. Pkt., 10c; oz., 25c.

**SWEET FENNEL**—Perennial. Tea made from the seed is an excellent remedy in case of colic and stomach complaints. Pkt., 10c; oz., 20c.

**SWEET MARJORAM**—Biennial. The leaves are used in soups, the seeds in the manufacture of sausage. An aromatic of sweet flavor. Pkt., 10c; oz., 40c.

**SWEET THYME**—Perennial. Thyme is an excellent remedy for nervous headaches. Pkt., 10c; oz., 50c.

**WORMWOOD**—Perennial. Used for medicinal purposes. Beneficial to poultry and should be planted in every poultry yard. Pkt., 10c; oz., 40c.

## Horse Radish

Horse Radish is easily grown from sets—small lengths of roots. These sets, if planted in the spring in good, rich soil, will form large roots by fall. The set should be planted with the small end down and the upper portion 2 inches below the surface. Postpaid: 30c per doz.; \$1.00 per 100.

## Kohl Rabi

(Cavolo Rapa, Col Rabano, Kohlrabi)

**CULTURE**—An ounce will sow 200 feet of drill. Kohl Rabi produces a large bulb on the stem which is used as a vegetable and also for stock feeding. If used while young, the bulb when properly cooked makes a delicious vegetable. An excellent way to cook is to cut the bulbs into small cubes and boil until tender. Serve with a cream sauce.

The seed should be sown in June or July in rows about 2 feet apart, and the plants thinned to 8 inches apart in the rows.

**EARLY WHITE VIENNA**—The best variety for the table. When the bulbs are the size of an apple they are ready for use, and are of excellent quality, being tender and of delicate flavor. Postpaid: Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c;  $\frac{1}{2}$  lb., 65c; lb., \$1.00.

**EARLY PURPLE VIENNA**—Very similar to the White Vienna except the bulbs are purple. Postpaid: Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c;  $\frac{1}{2}$  lb., 65c; lb., \$1.00.

## Lettuce

(Lattuga, Lechuga, Lattich, Kopfsalat)

**CULTURE**—One ounce will sow 150 feet of drill, two pounds an acre. Lettuce is a hardy plant and will stand a low degree of temperature; however, a moderate temperature is desirable during the growing period. Lettuce stands cold much better than heat, making it impossible to produce lettuce of good quality during the hot summer months. Hot weather causes the plants to go to seed instead of heading.

Lettuce requires considerable soil moisture; however, an excess of moisture may cause stem rot. A light, loamy soil, enriched with well rotted manure, is best adapted for the successful growing of lettuce. If planted on poor soil the heads will be small and leaves tough.

As soon as the ground can be satisfactorily worked, sow in drills 15 to 20 inches apart, one-half to one inch deep, thin the plants 8 to 15 inches apart in the row. Small headed varieties thin 8 to 10 inches in the row. Large varieties, like New York Wonderful or Iceberg, thin to 15 inches in the row.

**BIG BOSTON**—Very popular for outside culture as well as cold frame forcing. Head large and compact; leaves broad, almost smooth, but wavy at the edge; color light green, slightly tinged reddish-brown; heart greenish-white, tinged yellow; of fair quality. Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00; 10 lbs., \$10.00.

**EARLY CURLED SIMPSON**—A leading early, loose-heading variety of fairly large size; leaves broad, crumpled and well frilled at the edges; color light green; quality good. Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00; 10 lbs., \$9.00.

**BLACK SEEDED SIMPSON**—One of the best and most popular large, early, loose-heading varieties, succeeding everywhere, and always reliable. Leaves very broad, much blistered and crumpled, and excessively frilled on the borders; color light yellowish-green; quality fine. Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00; 10 lbs., \$9.00.

**PRIZE HEAD**—One of the very best loose-bunching or non-heading varieties. Leaves brown, very curly and of remarkably fine flavor. Grows quickly, and all except the outer leaves are very brittle. It is probably the most easily-grown lettuce in cultivation. Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00; 10 lbs., \$9.00.

**IMPROVED HANSON**—One of the most reliable, sure-heading sorts; heads globular, large and late; leaves large and very broad; fairly blistered and crumpled, borders finely frilled; color clear light green; quality good. A fine variety for midsummer planting outside, as it withstands the hot season better than most sorts and is a slow seeder. Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00; 10 lbs., \$9.00.

**DENVER MARKET**—A decidedly crisp, oval heading sort; leaves short, excessively blistered, crumpled and frilled on the edges; color very light green, never spotted; quality fair. Postpaid: Pkt., 5c; oz., 20c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$10.00.

**ICEBERG**—A large, late crisp cabbage-heading variety; heads very firm, hard and well blanched; leaves unusually broad and quite blistered and crumpled, borders finely frilled; color medium green with faint brown tracing on the border; quality good. Postpaid: Pkt., 5c; oz., 20c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$10.00.

**GRAND RAPIDS**—The best loose-leaved curled variety for forcing. It is a very rapid grower, and will stand high temperature. It does not wilt quickly after cutting, and will therefore stand shipping. Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00; 10 lbs., \$9.00.



New York or Wonderful No. 12

**PARIS WHITE COS OR ROMAINE**—A medium large, strictly self-closing lettuce, making a well-blanced, firm, loaf-shaped head; leaves oval in form, flat and smooth; color medium dark green; quality excellent. Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00; 10 lbs., \$9.00.

**NEW YORK OR WONDERFUL**—This variety is also called "Mountain Iceberg." It is larger than the regular Iceberg, forming compact white heads as large as a small cabbage. The leaves are deep green, crinkled or blistered, and very large. The heads are round or oblong, very large, compact, and almost perfectly white after the outer leaves are removed. It is rather coarse in texture but very crisp and when well grown is an excellent lettuce. Postpaid: Pkt., 5c; oz., 20c; 1/4 lb., 60c; 1/2 lb., \$1.00; lb., \$1.50; 10 lbs., \$12.50.

**NEW YORK OR WONDERFUL No. 12**—This remarkable new strain was introduced by the Pieters-Wheeler Seed Co. and is a single plant selection of their New York Special Lettuce which in the past has been recognized as the best variety of the crisp-head types. The No. 12 is much earlier; makes large solid heads; more uniform in maturing; does not tip, burn and is of the flat head type. It is ready to market in about 60 to 65 days from planting. Makes a nice, hard, uniform head, most of them ready for market at the same time. Postpaid: Pkt., 10c; oz., 25c; 1/4 lb., 75c; 1/2 lb., \$1.25; lb., \$2.00; 5 lbs., \$8.75; 10 lbs., \$14.00.

**NEW YORK SPECIAL No. 41**—This is a finely bred selection of the New York type lettuce with wrapped leaves which fold over the head and protect it from sun burn. Popular with lettuce shippers for fall and winter use. Postpaid: Pkt., 10c; oz., 25c; 1/4 lb., 75c; 1/2 lb., \$1.25; lb., \$2.00; 10 lbs., \$17.50.

**NEW CHICKEN LETTUCE**—Here is a genuine lettuce which will yield as much or more chicken or rabbit feed as any "greens" plant. When once cut it starts to grow again. The leaves can be pulled off each stem like a kale. Chicken Lettuce does not make a head, but sends up a stout stalk three or four feet high, just loaded with leaves. Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25.

**FOR THE COMMERCIAL HEAD LETTUCE GROWERS**—We can supply 2 and 3-year-old seed in quantity, of special strains of New York Lettuce Seed. Let us quote you on your requirements.

## Leek

(Porro, Puerro, Porree, Lauch)

Leek is a kind of onion that does not form any bulb, but grows in a long stem, which is blanched by drawing earth around it. When blanched in this way it makes an appetizing salad, or is eaten like green onions. Seed is sown in the spring and the leek is ready in the fall.

**LARGE AMERICAN FLAG**—The most popular variety; grows to a good size, is straight and uniform, and is of the best quality. Postpaid: Pkt., 5c; oz., 25c; 1/4 lb., 60c; 1/2 lb., \$1.00; lb., \$1.75.

## Mushroom Spawn

Mushrooms can be raised in a cellar or any other place where the temperature can be kept between 50 and 60 degrees. The beds are made of horse manure mixed with fine soil. A brick of spawn will cover 10 to 12 square feet of bed. The spawn we offer is of a pure culture, fresh, and will give excellent results under proper conditions. Full and explicit directions for growing are sent by us free with all orders for spawn. Postpaid: Per brick, 40c; 10 bricks, \$3.00.

## Watermelons

(Melone d'aqua, Sandia, Wasser-Melone)

**CULTURE**—The same as for Muskmelons, except that they should be planted from 8 to 10 feet apart. One ounce for 30 hills and 3 to 4 pounds to the acre.

**COLE'S EARLY**—One of the earliest and best of the early sorts; hardy, medium size, nearly round; rind dark green, striped a lighter shade; flesh deep pink and excellent in quality; seeds black. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**PHINNEY'S EARLY**—Ripens with Peerless; medium in size and oblong in form; color very distinct, the rind being mottled with various shades of green so as to present an almost scaly appearance; quality good; seeds light brown. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**FORDHOOK EARLY**—An extra early variety of fine quality and fair size; form round to oblong; skin dark green mottled with a darker shade; flesh bright red; seeds white. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**HALBERT HONEY**—A very sweet, long, dark green variety. Fruits average 18 to 20 inches long, have a thin rind and deep red meat of delicious flavor; pulp entirely free from stringiness; seeds white. One of the finest for the home-garden. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**HUNGARIAN HONEY**—A superb early variety; uniformly globe-shaped; color dark green, mottled and veined with a darker shade; flesh brilliant red, ripening clear to the rind and of the highest quality; seeds brown and very small. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$7.00.

**ROCKY FORD**—Fruit is of large size, oblong in shape, averaging 18 to 20 inches in length and 10 to 12 inches in diameter. The appearance is handsome, the flesh is a bright scarlet, with flavor which is superbly delicious. Unfortunately the skin is too tender to admit of shipping to any great distance. Very similar to Kleckley's. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**PEERLESS OR ICE CREAM**—Very early, of medium size and one of the best for growing in the North; short oblong in form; rind thin, light green, mottled and finely veined with a darker shade; flesh bright scarlet and very sweet; seeds white. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**TOM WATSON**—Probably the best shipping melon and one of the best main crop sorts; grows to a very large size. Fruit large and long in shape, colored a medium green with a light tracing of a darker shade, flesh rich red and of good quality; seeds brown. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

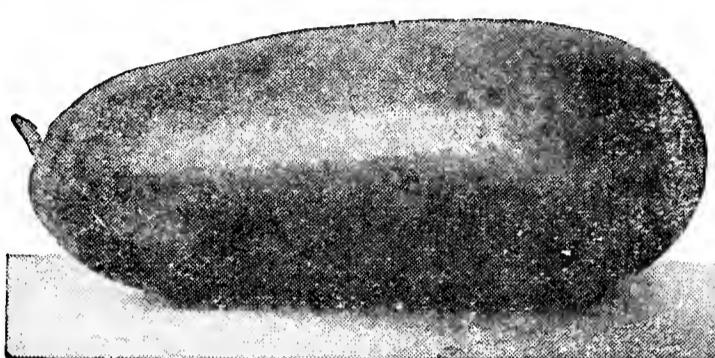
## Tom Watson Watermelon

## Mushroom Spawn

Mushrooms can be raised in a cellar or any other place where the temperature can be kept between 50 and 60 degrees. The beds are made of horse manure mixed with fine soil. A brick of spawn will cover 10 to 12 square feet of bed. The spawn we offer is of a pure culture, fresh, and will give excellent results under proper conditions. Full and explicit directions for growing are sent by us free with all orders for spawn. Postpaid: Per brick, 40c; 10 bricks, \$3.00.

## Watermelons

(Melone d'aqua, Sandia, Wasser-Melone)



Kleckley's Sweet

**KLECKLEY'S SWEET OR MONTE CRISTO**—Medium to large in size, medium early and exceedingly sweet; oblong in form, slightly tapering towards the stem end; rind very dark green; flesh very bright, rich red and ripens nearly to the rind; too tender for a shipping melon; seeds white to light brown. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**WONDERMELON (Imp. Kleckley's Sweets)**—A large oblong melon with a thin dark rind and showing faint tracings or indentations running the length of the melon. Resembles Kleckley's but with no tendency toward pear-shape. Also known as White Seeded Kleckley. Postpaid: Pkt., 5c; oz., 15c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 85c; 10 lbs., \$7.50.

**ANGELINO**—The quality of this melon is equalled by few varieties. It is desirable for shipping. The fruits are medium sized, nearly round or slightly oblong. The skin is very deep green, indistinctly mottled and striped with a lighter shade. The flesh is decidedly bright vermillion-red, remarkably fine grained but firm and very sweet. Seeds black. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 85c; 10 lbs., \$7.50.

**SUGAR STICK**—One of the best of the long melons. It has a light green colored rind, black seed and with an average weight of 25 pounds. The rind is tough while the flesh is most delicious. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 85c; 10 lbs., \$7.50.

**IRISH GRAY**—A large, long, main crop variety with a distinctive, gray-green skin; shell very tough and hard, making a fine shipper; flesh very firm, crisp and sweet, seeds brown. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**EXCEL**—Largest of the shipping melons; midseason; fruit long, dark green in color with an irregular faint striping and covered with a fine veining of a darker shade; flesh red and crisp; rind hard and tough; seeds gray-brown, but variable as to color. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 85c; 10 lbs., \$7.50.

**KLONDIKE**—A popular melon on the Pacific coast, having a dark green, thin, tough rind and attractive bright red flesh; seeds small, black. A good shipping sort. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.

**STONE MOUNTAIN**—A very large, nearly round or "blocky" melon of high quality. Rind fairly tough, dark green; flesh sweet, rich scarlet, with few seeds; very prolific; seeds white. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 45c; lb., 85c; 10 lbs., \$7.50.

**KING AND QUEEN (Winter Watermelon)**—A Russian variety of fair size, round in shape; rind light cream with faint, irregular light green striping; early, prolific and excellent in quality. A good keeping and shipping variety; seeds small, black. Average weight, 10 pounds. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.10; 10 lbs., \$10.00.

**PRESERVING CITRON (Red-Seeded)**—Most desirable for preserves. Flesh solid and white. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.



Tom Watson Watermelon

## Muskmelon or Cantaloupe

(Popone, Melon, Melone)

### GREEN-FLESHED VARIETIES

**CULTURE**—One ounce of seed is sufficient for 50 hills; 2 pounds per acre. Plant in May and June. Melons do best in sandy soil or sod land; the ground should be made rich. The hills should be 4 to 6 feet apart with 10 to 12 seeds in each hill. Put the seeds an inch deep and when danger of frost is over, thin to four good plants to a hill. Cultivation should be kept up as long as possible.

**ROCKY FORD (Netted Gem)**—This has become one of the most popular of small or crate melons and is shipped in large quantities from Colorado. It is also a desirable medium early sort for the home and market garden. The vines are vigorous and productive. The fruits are oval, slightly ribbed, densely covered with fine netting. The flesh is green, very sweet and highly flavored. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.

**EDEN GEM (Gold-lined Rocky Ford)**—A round type of Rocky Ford; entirely covered with fine netting and without ribs; flesh green, tinted yellow at center; quality excellent. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.

**EXTRA EARLY HACKENSACK**—An early selection from the old Hackensack, maturing from a week to ten days earlier. Fruit large, round, flattened at the ends, deeply and irregularly ribbed, coarsely and heavily netted; flesh green, thick and of fine quality. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.

**EARLY HANOVER**—An extra early green fleshed variety of fine quality. Fruits medium size. Specially recommended where seasons are short. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00; 10 lbs., \$9.00.

### SALMON-FLESHED VARIETIES

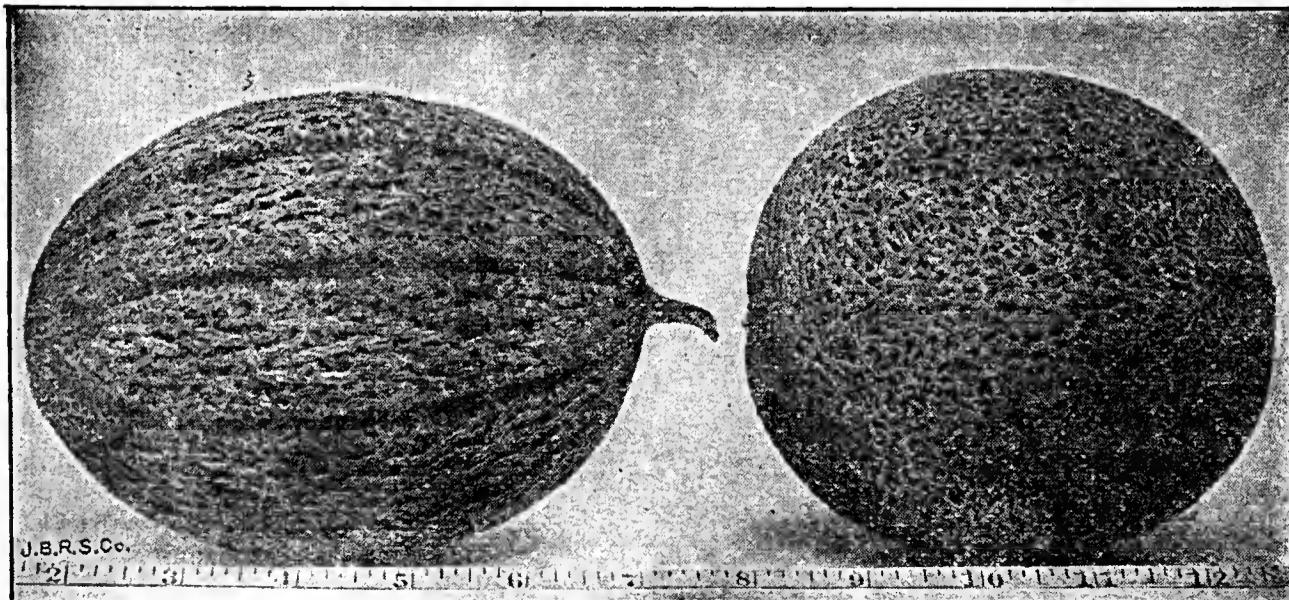
**GREELEY WONDER**—This melon is quite large, averaging 4 to 5 pounds, nearly round, and having a very heavy netting. Flesh is quite thick, fine-grained, salmon-colored and of fine quality. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00; 10 lbs., \$9.00.

**EMERALD GEM**—Ripens early. Medium-sized, nearly round melon, with delicate light salmon flesh, very thick, fine-grained and of superb flavor. The rind is thin, dark green, ribbed, slightly netted. One of the best for home use. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.

**POLLOCK'S No. 10-25**—Uniform in size of fruit, fine keeping and shipping qualities, and attractive appearance. Flesh salmon at the center, shading to light green at the rind; thick flesh and very sweet. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.

**HEARTS OF GOLD**—Vine vigorous, blight-resisting, and very productive. The fruits vary slightly in shape, averaging nearly round. The netting is very dense and fine over the entire surface. Rind, although thin, is very firm, hence it is one of the best shipping sort. Flesh salmon, very thick, highly colored, of finest texture and delicious flavor. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.

**BURRELL'S GEM (Ordway Pink Meat)**—An excellent melon of the Netted Gem type; somewhat later than that variety and a fourth larger; fruit oblong, distinctly but not deeply ribbed and well netted; flesh deep salmon, of fine quality. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.



J.B.R.S.C.

Burrell's Gem

Rocky Ford

**HALE'S BEST OR H. B.**—A remarkably early shipping melon from the Imperial Valley. Melons are oval in shape, about 6 inches long by 4 1/2 inches in diameter, with heavy netting and fairly distinct ribbing. Flesh exceptionally thick and deep salmon in color. A most promising and profitable variety. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1/2 lb., 65c; lb., \$1.00; 10 lbs., \$9.00.

**TIP TOP**—A well-known, very productive market sort. The fruits are large, nearly round, slightly ribbed and fairly well covered with shallow netting. The skin is light yellow when the fruit is mature. The flesh is deep yellow, rich and highly flavored. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 50c; 1/2 lb., 85c; lb., \$1.50; 10 lbs., \$12.50.

**GOLDEN CHAMPLAIN**—An exceedingly early, salmon-fleshed melon of medium size and fine quality. Evidently a cross between Fordhook and Emerald Gem as it has a tendency to produce melons resembling both types. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$11.00.

**HONEY ROCK (or Sugar Rock)**—A rather new melon originating in Indiana and acquiring immediate popularity on account of its high quality. Of medium size with a gray-green skin moderately covered with a heavy, coarse netting; rich salmon flesh. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$11.00.

**PERFECTO**—Superior to Pollock's No. 10-25. Fruit very uniform in size, nearly round, and densely covered with a hard gray netting. Flesh very thick and of a beautiful salmon color, shading into green as it nears the rind and very sweet. Perfecto has the deepest flesh, smallest seed-cells and more salmon-colored flesh than any other type of shipping melon. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$11.00.

**BANANA**—Fruit 15 to 20 inches long by 4 to 6 inches thick. Skin light yellow and smooth. Flesh deep yellow. Has an odor similar to a banana. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.

**MILLER'S CREAM OR OSAGE**—A week or ten days earlier than the old type Osage, and nearly as large; flesh very thick, salmon colored and of high quality. Form, color and general appearance similar to Osage. One of the very best melons. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 50c; lb., 90c; 10 lbs., \$8.00.

## Winter Muskmelons

**GOLDEN BEAUTY CASABA**—One of the best of the autumn Casabas. Of medium size, 6 to 8 inches in diameter, easily grown, very prolific. The fruits are easily handled, being firm and heavy. Golden Beauty ripens early in September and fruits can be kept until well into December. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$11.50.

**HONEY BALL**—A miniature Honey Dew in appearance, possessing a yellowish-white rind lightly covered with a finely traced netting and with the silvery-green flesh of that variety; differing in being earlier and about the size of Rocky Ford. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$11.00.

**HONEY DEW (Green Fleshed)**—The fruits are of medium size, round or slightly oval, 5 to 6 inches in diameter, and weigh about 6 pounds each. The skin is smooth with an occasional net and when fruits are ripe is creamy yellow in color. Flesh light emerald green, fine-grained and of very sweet, sugary flavor. Rind thin but very firm and the fruits stand shipping remarkably well. If picked shortly before fully mature, the fruits will keep for several weeks later than Rocky Ford. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$11.00.

**HONEY DEW (Pink Fleshed)**—This new melon is similar to the green-fleshed Honey Dew melon, only the flesh is pink instead of green. It differs from the green-meated Honey Dew in that the melons slip from the vine more easily when ready to pick. **Postpaid:** Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25; 10 lbs., \$11.00.

## Mustard

(Mostaza, Senf)

**CULTURE**—One ounce of seed will sow 100 feet of drill. When used for salads sow thickly in shallow drills, 6 inches apart. Successive sowing may be made every week or two. When grown to produce seed for use in pickles, pepper sauce, etc., sow early in rows about a foot apart and 3 inches apart in the row.

**SOUTHERN GIANT CURLED**—Plant vigorous and hardy, of upright, spreading growth; leaves 5 inches long by 3 inches wide, light green, tinged yellow, much crumpled and frilled at the edges. The popular market variety in the South; seed small, dark reddish-brown. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**FORDHOOK FANCY**—A handsome, vigorous growing, mild variety, standing a long time before going to seed; leaves bright green, intensely curled and fringed on the edges; fine for salads and garnishings; seed reddish-brown. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 45c; lb., 85c; 10 lbs., \$7.50.

**WHITE ENGLISH**—Plant of rapid, upright growth, soon going to seed; leaves rather small and smooth, deeply cut or divided; color deep green; seed large, light yellow. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

## Okra or Gumbo

(Ocra, Quimbombo (Gombo), Ocher)

**CULTURE**—One ounce of seed will sow 40 feet of drill. Very wholesome. The pods, when young, make fine soup and are also used in mixed vegetable soups. Plant seed after the ground is warm and dry, in drills 3 feet apart, thinning the young plants to 1 foot apart. Make early and late sowing to secure a supply throughout the season. Easy to grow in any good garden soil. Popular in the South.

**DWARF LONG-POD**—An early, dwarf growing, sturdy variety producing an abundance of long, fluted, dark green 8-in. pointed pods. One of the best for canning. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**WHITE VELVET**—Plants 3 1/2 feet high. Pods creamy white, 7 in. long, slightly curved and pointed, smooth and tender; early and productive. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

**PERKINS' MAMMOTH**—Very early and productive. Plant 3 feet high; pods bright green, 7 1/2 in. long, straight, slender, pointed and slightly corrugated; a desirable market variety. **Postpaid:** Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c; 10 lbs., \$6.50.

## Onions

(Cipollo, Cebolla, Zwiebel)

**CULTURE**—One ounce of seed is sufficient for 100 feet of drill, 4 pounds for one acre. Onion seed should be sown as early in the spring as possible to get the ground in shape, even though the weather is cold. Thorough preparation of the soil is one of the most essential points in successful onion growing. They delight in a rich, deep sandy loam, but excellent yields can be obtained from heavier soils properly fertilized. Sow the seed in rows 12 to 14 inches apart and about 1/2 inch deep. After they are well started, or about 3 to 4 inches high, thin out to stand about 2 inches apart, keeping them well hoed and free from weeds at all times throughout the season.

**SOUTHPORT YELLOW GLOBE**—The most largely grown yellow market onion and the most profitable. The bulbs are a true deep globe, having a small neck and a heavy, thick skin which makes it an excellent storage sort; the color is a deep yellow or golden-brown. The flesh is white, crisp and mild in flavor. **Postpaid:** Pkt., 5c; oz., 20c; 1/4 lb., 50c; 1/2 lb., 85c; lb., \$1.50; 10 lbs., \$13.50.

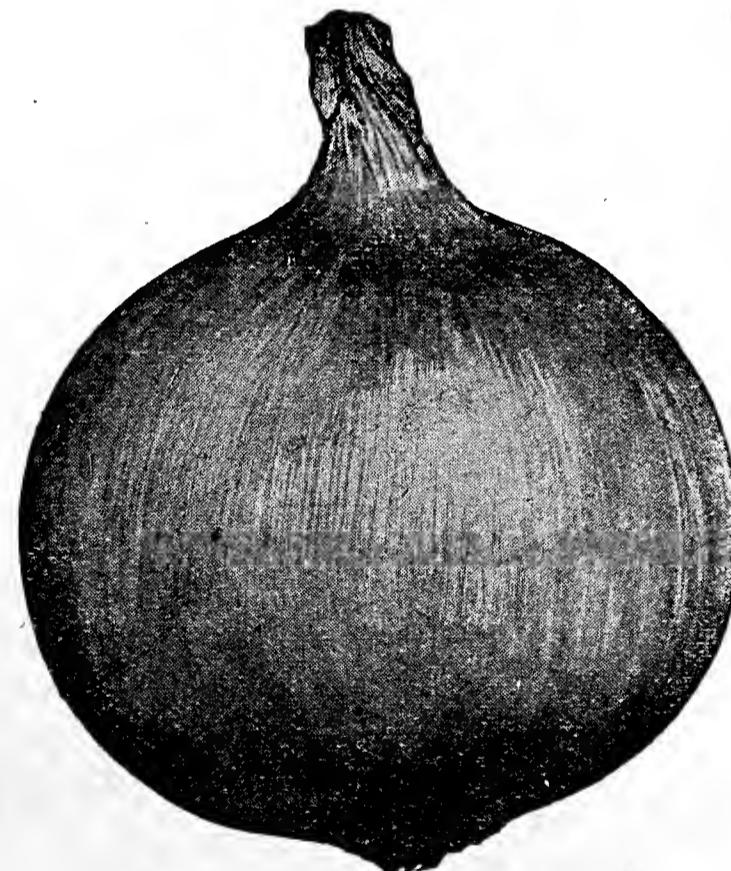
**YELLOW GLOBE DANVERS**—One of the best and most extensively grown yellow onions. Bulbs are uniformly globe-shaped, small neck, an enormous yielder and fine keeper. We have used the utmost care in selecting our seeds of this variety, and can recommend them to the most critical grower. **Postpaid:** Pkt., 5c; oz., 20c; 1/4 lb., 50c; 1/2 lb., 85c; lb., \$1.50; 10 lbs., \$13.50.

**YELLOW FLAT DANVERS**—A splendid extra early variety for either market or home use. Very productive, medium size, round, flat, small neck. Flesh white, fine grained and mild. **Postpaid:** Pkt., 5c; oz., 20c; 1/4 lb., 45c; 1/2 lb., 75c; lb., \$1.40; 10 lbs., \$12.50.

**MOUNTAIN DANVERS**—This variety is semi-round. It is one of the very earliest and seems to ripen practically all the crop at once. Color is a beautiful dark yellow, shading to brown. The skin is thick and heavy, which makes it a good keeping and shipping sort. Our seed is grown for us in the mountain districts of Colorado, which produces onions of extreme earliness and hardiness. Mountain Danvers mature fully two weeks earlier than the Yellow Globe Danvers. **Postpaid:** Pkt., 5c; oz., 20c; 1/4 lb., 50c; 1/2 lb., 90c; lb., \$1.75; 10 lbs., \$15.00.

**GIANT GIBRALTAR**—This is the immense Spanish onion which comes into our market and sells for high prices. The onions are globe shaped, slightly flattened, deep yellow and very smooth and handsome. They often weigh several pounds, and the flavor is mild and pleasant. **Postpaid:** Pkt., 5c; oz., 20c; 1/4 lb., 50c; 1/2 lb., 85c; lb., \$1.60; 10 lbs., \$15.00.

**SOUTHPORT RED GLOBE**—The finest type and most popular of the red onions. The bulbs are distinctly globe-shaped, with a small neck, and are excellent keepers; color a deep purplish-red. We have an unequalled strain of this variety. **Postpaid:** Pkt., 5c; oz., 20c; 1/4 lb., 50c; 1/2 lb., 85c; lb., \$1.50; 10 lbs., \$13.50.



Yellow Globe Danvers

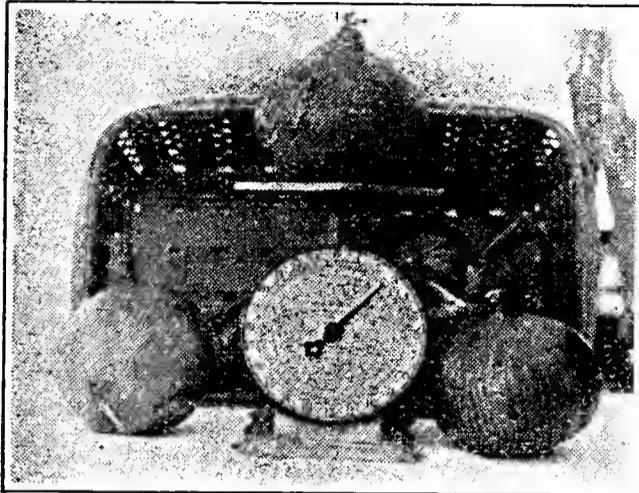
**AUSTRALIAN BROWN**—Bulb flattened, but thick through, skin reddish brown. It is very early and an excellent keeper. **Postpaid:** Pkt., 5c; oz., 20c; 1/4 lb., 45c; 1/2 lb., 75c; lb., \$1.40; 10 lbs., \$12.50.

**RED WETHERSFIELD**—A very large, deep red onion, that matures early and succeeds well everywhere. The bulbs are flattened, very large round, solid and of fine quality. A good keeper. **Postpaid:** Pkt., 5c; oz., 20c; 1/4 lb., 45c; 1/2 lb., 75c; lb., \$1.40; 10 lbs., \$12.50.

**DENIA (IMPROVED PRIZETAKER)**—A very handsome, large onion, nearly globular in shape. Skin yellowish straw color. Flesh white, mild and tender. **Postpaid:** Pkt., 5c; oz., 20c; 1/4 lb., 50c; 1/2 lb., 85c; lb., \$1.60; 10 lbs., \$13.50.

## Onions—Continued

**SWEET SPANISH OR VALENCIA**—Sweet Spanish is a sweet mild onion which grows to an exceptionally large size, often weighing from  $1\frac{1}{2}$  to  $2\frac{1}{2}$  pounds. The true type is of globe shape with a rich yellow shading to bronze color. It is a good keeper when properly stored. It is very resistant to trip and plant lice. Where seasons are short, sow in hot beds and transplant. The photo shows a field of Sweet Spanish Onions near Denver, which produced over 400 sacks of large uniform onions per acre. Postpaid: Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 80c;  $\frac{1}{2}$  lb., \$1.40; lb., \$2.50; 5 lbs., \$12.00; 10 lbs., \$22.50.



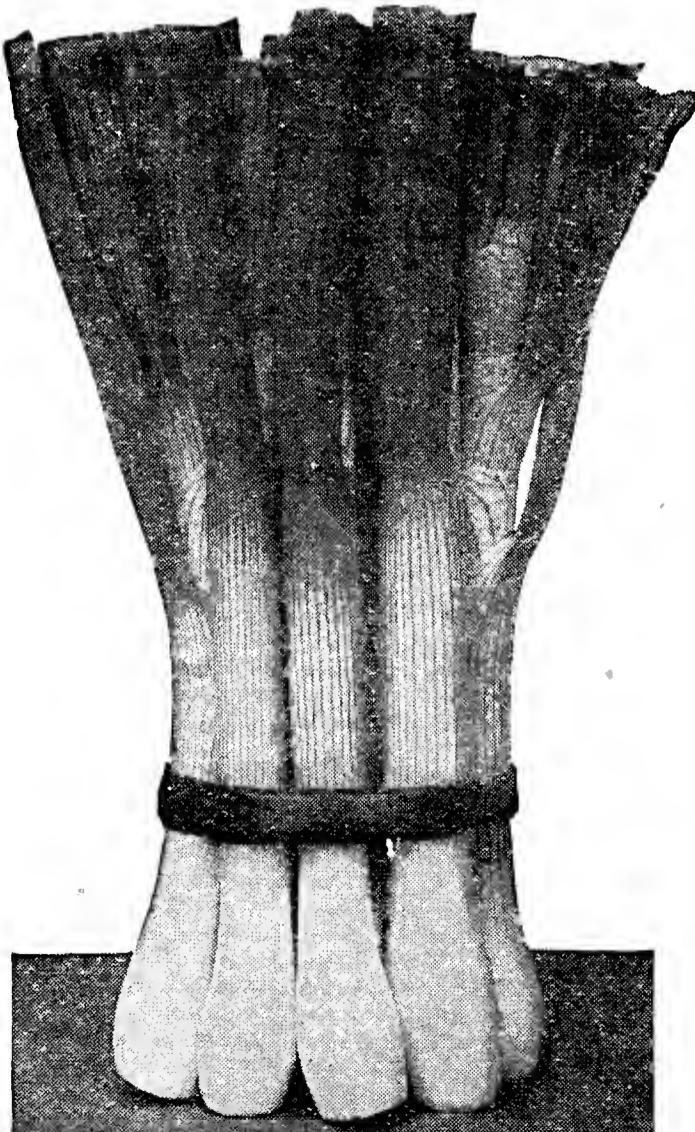
Sweet Spanish

**SOUTHPORT WHITE GLOBE**—The handsomest onion grown. Beautiful silvery white, perfectly globe-shaped, uniform in size. Flesh firm, fine-grained, solid, and of pleasant flavor. Very small neck. Postpaid: Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c;  $\frac{1}{2}$  lb., \$1.15; lb., \$2.00; 10 lbs., \$17.50.

**MAMMOTH SILVER KING**—Very large white, flat onion used principally for bunching while green. Seed sown in the spring will make large boiling onions in July and August. Postpaid: Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.10; lb., \$2.00; 10 lbs., \$17.00.

**WHITE PORTUGAL OR SILVERSKIN**—A large, flat, white onion of mild and pleasant flavor; hard and fine grained. The Portugal is more extensively grown for sets than any other white variety, and is also largely used as a pickler and for bunching. Postpaid: Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.10; lb., \$2.00; 10 lbs., \$17.50.

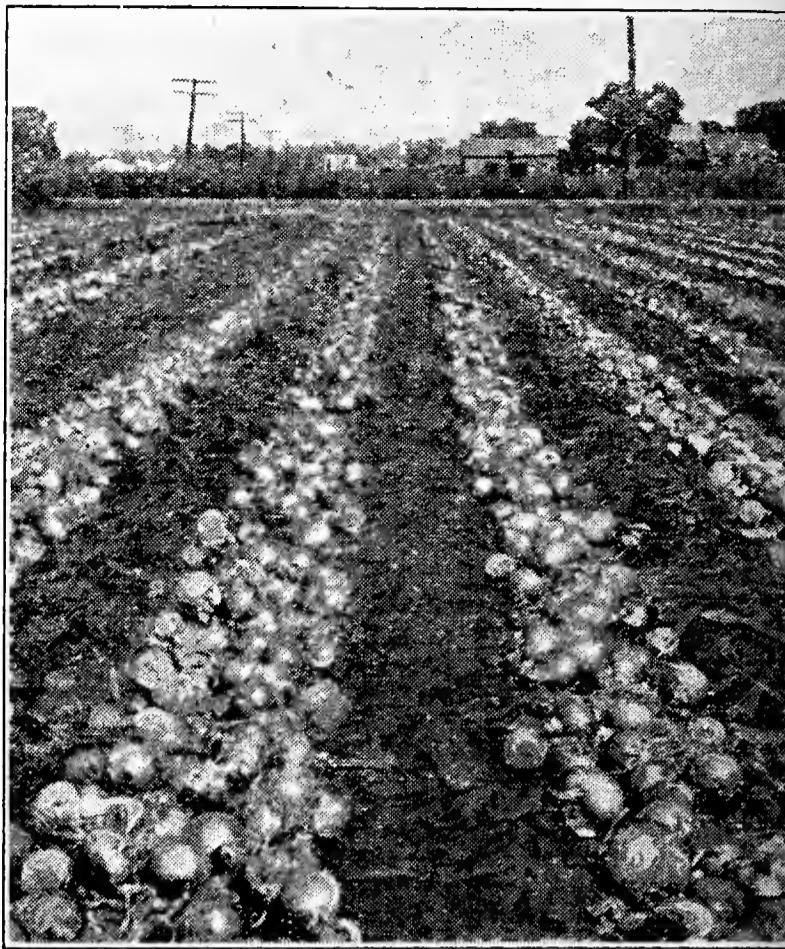
**WHITE LISBON**—This is the best and most profitable variety of the bunching sort, acres of them being grown here by the gardeners for bunching for local and shipping trade. Postpaid: Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.00; lb., \$1.75; 10 lbs., \$15.00.



White Lisbon

### WHITE SWEET SPANISH

The pure white flesh of this onion is fine grained and exceptionally sweet. It is a splendid sort to use in salads or other ways without cooking. A very good keeper for so early and large variety, and is excellent for either the home or market garden. Postpaid: Pkt., 10c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00;  $\frac{1}{2}$  lb., \$1.75; lb., \$3.25; 10 lbs., \$30.00.



A Field of Sweet Spanish Onions

**GIANT WHITE ITALIAN TRIPOLI**—A large, pure white, flat onion of mild and excellent flavor. This medium early and productive variety will produce a larger bulb from seed than White Portugal, but to attain full size the seed should be sown very early in a hotbed and the young plants set out in rich soil. When grown under proper conditions the bulbs are often three to four inches across, with pure white skin. Postpaid: Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.10; lb., \$2.00; 10 lbs., \$17.00.

**EXTRA EARLY BARLETTA**—The best small white onion for pickling. Our seed is the real Barletta onion, producing very small round, white onions that mature very early. Sow at the rate of 40 lbs., per acre. Postpaid: Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.10; lb., \$2.00; 10 lbs., \$18.00.

**CRYSTAL WHITE WAX**—The most attractive onion in the world. It is a waxy white, of the finest flavor and quality. It is the onion that is grown so largely in the South and commands a premium over any other onion in the leading markets. Postpaid: Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 85c;  $\frac{1}{2}$  lb., \$1.50; lb., \$2.75; 10 lbs., \$24.00.

**YELLOW BERMUDA**—This is the standard variety grown so largely in Texas. It is the most hardy of all sorts, very prolific, less affected by disease and will yield more than any other variety. Postpaid: Pkt., 10c; oz., 20c;  $\frac{1}{4}$  lb., 75c;  $\frac{1}{2}$  lb., \$1.30; lb., \$2.50; 10 lbs., \$22.50.

## Onion Sets

**CULTURE**—One quart will plant 20 feet of row; 12 to 15 bushels an acre. Soil requirements the same as for onion seed. Place the onion sets 3 to 4 inches apart, according to size, 3 inches deep, in rows 1 foot apart. Furrow out the soil with a hoe, set the onions in this furrow right side up, and cover with a garden rake.

BOTTOM SETS			
White—Red—Yellow			
By Parcel Post, Postpaid			
Yellow Bottom Sets.....	250	\$1.05	\$1.90
Red Bottom Sets.....	25c	1.05	1.90
White Bottom Sets.....	300	1.15	2.25
			1 Bu. \$3.75
			8.75
			4.00

By Freight or Express at Purchaser's Expense

	Qt.	$\frac{1}{4}$ Bu.	$\frac{1}{2}$ Bu.	1 Bu.
Yellow Bottom Sets.....	20c	90c	\$1.65	\$3.00
Red Bottom Sets.....	20c	90c	1.65	3.00
White Bottom Sets.....	25c	\$1.05	1.75	3.25

## Peas

(Pisello, Chiaroso, Erbsen)

**Culture**—One pound will plant 50 feet of drill; 90 pounds an acre. Peas thrive better if the ground has been manured for a previous crop, but if the ground is poor and requires enriching, use well-rotted manure, and for the dwarf varieties you can hardly make the soil too rich. When grown as a market crop, Peas are seldom staked or bushed, but are sown in single rows 3 to 4 inches deep, the depth depending on the time of sowing, nature of the soil, as well as the variety. Wrinkled varieties are not so hardy as the smooth sorts, and if planted early should have dry, warm soil, and covered only about 1 inch, or they are liable to rot in the ground. These wrinkled varieties are, however, the sweetest and best flavored. Rows for planting should be from 2½ to 3½ feet apart, according to the kind, soil, and manner of culture desired. When grown in the kitchen-garden it is best to sow the seed in double rows, 6 to 8 inches apart, the tall sorts doing better on trellis or brush.

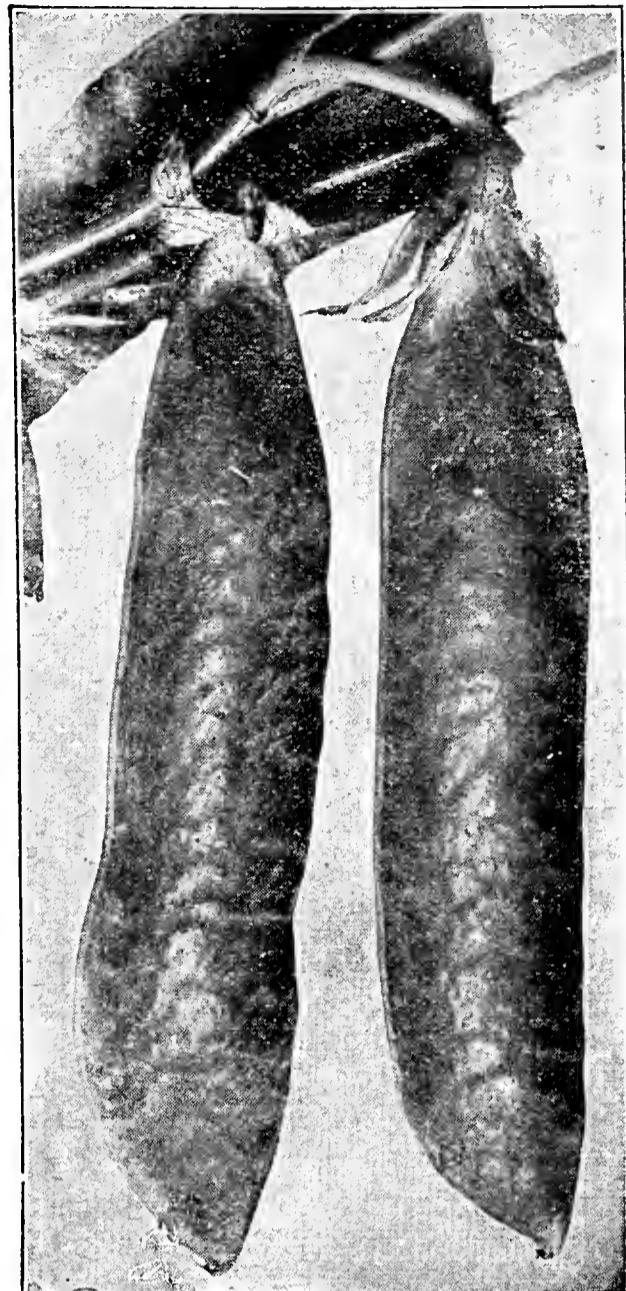
**ALASKA OR EARLIEST OF ALL**—The earliest of all smooth blue peas. It grows about 30 inches tall and is very uniform in maturing the crop. The peas are of good quality and retain that desirable green color after cooking. Our strain is especially fine, having been carefully selected for many years. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.00. Not Postpaid: 25 lbs., \$3.50; 100 lbs., \$12.00.

**PETER PAN**—One of the very finest of the large podded, dwarf peas, on the order of Laxtonian, though somewhat earlier. Height, 15 inches. Vine and foliage stout, heavy and dark green; pods 3½ inches long, very broad, straight and pointed, containing 6 to 8 large, dark green peas of superb quality. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.50. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$14.00.

**AMERICAN WONDER**—Very dwarf, early. 15 inches high. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$14.00.

**IMPROVED STRATAGEM**—Large pods, stocky vines, tall. A very fine late market pea of highest quality. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.25; 100 lbs., \$14.00.

**LITTLE MARVEL**—This pea has been rightly named. It is an early wrinkled sort, grows about 12 to 15 inches tall, and bears heavily. There is no earlier wrinkled pea and the quality satisfies everybody. Adapted to home-gardens. Pods dark green, 3 inches long, round with square end, and often contain seven rich dark green peas. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$15.00.



Laxton's Progress

**GRADUS OR PROSPERITY**—This extra-fine variety combines earliness with large size. In earliness, the Gradus follows closely after the first earliest. In height, they grow about 3 feet. The pods are long, straight and handsome. Peas of superb quality. It produces pods measuring 4 to 4½ inches in length, well filled with large, handsome peas. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$14.00.

**THOMAS LAXTON**—A very popular gardener's variety. Height 3 feet; vine and foliage moderately stout, medium green; pods medium green 3½ inches long, straight, nearly round and square ended, containing 7 medium dark green peas of superior quality. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$14.00.

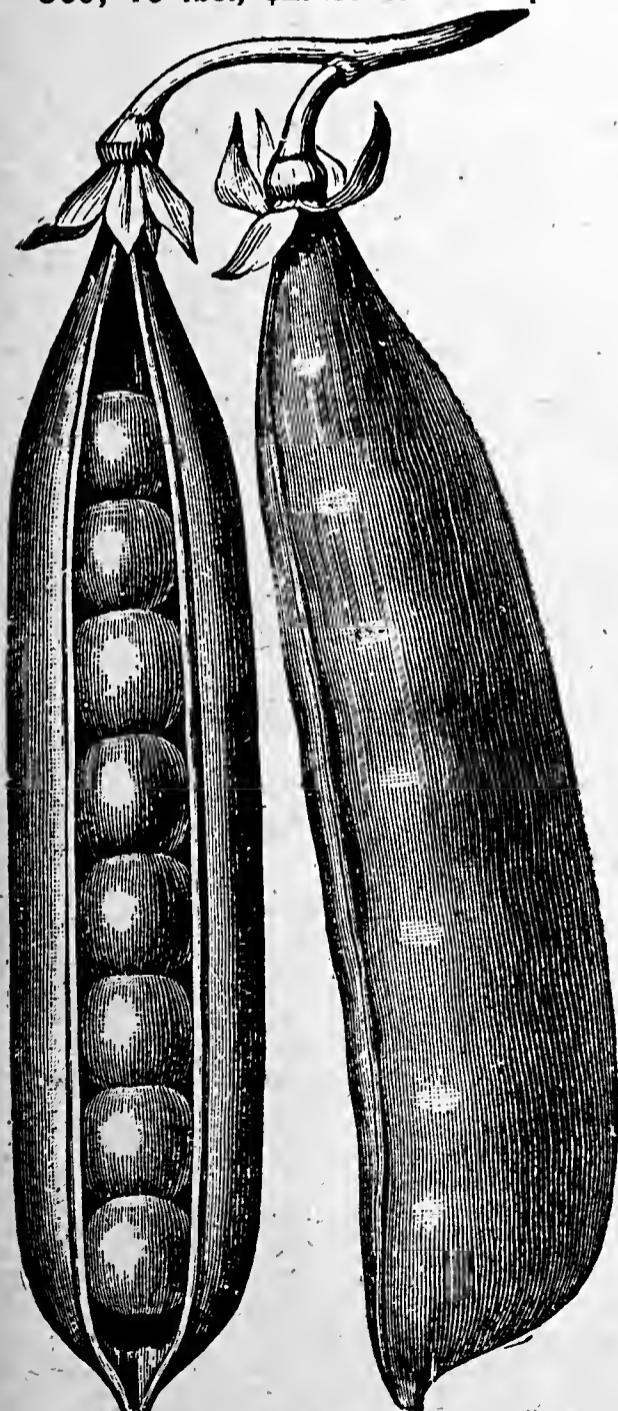
**LAXTONIAN OR DWARF GRADUS**—This handsome wrinkled pea is the largest podded of the dwarf varieties. The dark green pods are similar to Gradus in shape and splendid quality, are nearly as large in size and often mature a little earlier. Vines vigorous and productive, averaging fifteen to eighteen inches high; foliage dark green; pods about four inches in length. Seed light green, large, wrinkled, flattened, irregular in shape. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.50. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$15.00.

**LAXTON'S PROGRESS**—We consider this new pea the largest and best of the early dwarf varieties. It resembles Laxtonian very closely but the pods are a little larger and mature a day or two earlier. These two points make the Progress superior to any other similar variety we know of. The vines are 15 to 18 inches high and the pods 4 to 4½ inches long, deep green and well filled with dark green peas of high quality. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.50. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$15.00.

**DWARF TELEPHONE OR DAISY**—A standard main crop variety popular with market gardeners. Vine and foliage exceptionally stout, medium green in color; height 2 feet. Pods medium green, 4 inches long, broad, straight and pointed, containing 7 to 8 bright green peas of high quality; fairly productive. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$14.00.

**ALDERMAN**—A very fine pea for main crop. Yields more than almost any other variety. The pods resemble Telephone, but are larger, deeper green and better filled, while the vines are of more robust growth and more prolific. It is really an improved Telephone and the best of this type. The pods are immense, often 5 inches long and contain 8 to 10 large peas. Matures medium late. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$14.00.

**DWARF GRAY SUGAR OR EDIBLE POD**—Height 3 feet. Purple blossoms. Pods edible like snap beans. Postpaid: Pkt., 5c; ¼ lb., 15c; ½ lb., 20c; lb., 30c; 10 lbs., \$2.25. Not Postpaid: 25 lbs., \$4.00; 100 lbs., \$14.00.



Dwarf Telephone



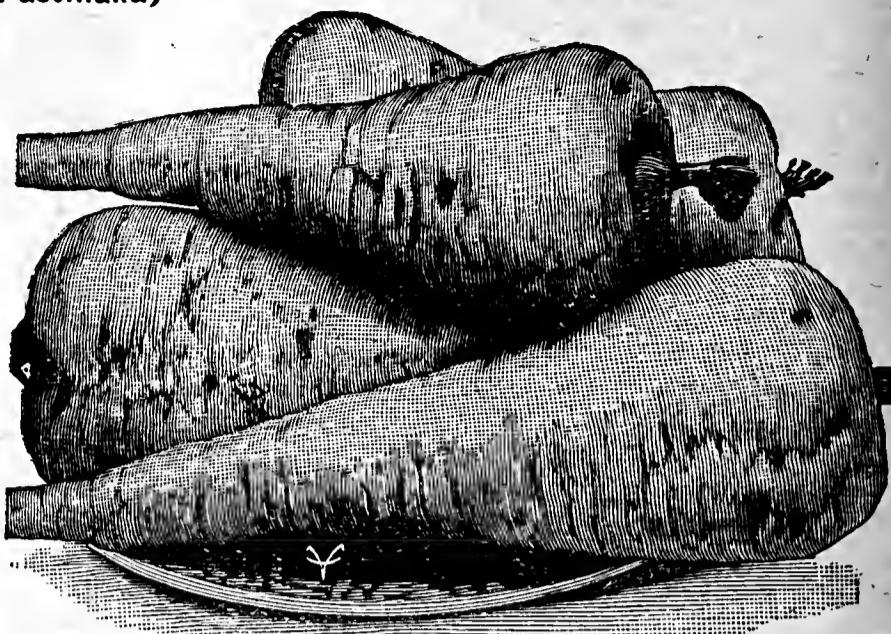
INOCULATE THIS CROP WITH NITRAGIN

## Parsnips

(*Pastinaca, Chirivia, Pastinaka*)

**CULTURE**—One ounce of seed will plant 200 feet of drill; 3 pounds to the acre. Sow as early in the spring as the weather will permit, in rows about 18 inches apart and about 1 inch deep, in a deep, rich soil. When the plants are about 2 inches tall, thin them out to 3 to 6 inches apart in the rows. The quality of the roots is improved by leaving them in the ground over winter for spring use. Parsnips are valuable for stock feeding as well as for table use. If grown on a large scale, make the rows wide enough to allow cultivation by horsepower.

**GUERNSEY HOLLOW CROWN**—Half long, smooth, large, tender and sweet. One of the best and the only kind grown here to any extent. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 45c; lb., 75c; 10 lbs., \$6.50.



Guernsey Hollow Crown

## Parsley

(*Prezzemolo, Perejil, Peterilie*)

**CULTURE**—One ounce of seed will plant 150 feet of drill; 3 pounds an acre. Parsley succeeds best on rich, mellow soil. The seed is very slow to germinate, and should be sown as early as possible in the spring. Sow in rows 12 to 18 inches apart, covering from one-half to an inch deep with the fine soil, firmly pressed down. When the plants are about 3 inches high, thin to about 6 inches apart in the row. Parsley is used largely for seasoning soups and stews, also for garnishing and for salads.

**CHAMPION MOSS-CURLED**—A choice, selected strain. Beautifully crimped, curled leaves. The color is rich green, making it the very best for garnishing. Its pleasant, aromatic flavor is unsurpassed. Very slow to go to seed and quite hardy. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 45c; lb., 75c; 10 lbs., \$6.50.

**DOUBLE CURLED**—A very compact, curly, fine cut, bright green variety. The market gardener's favorite. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 45c; lb., 75c; 10 lbs., \$6.50.

**PLAIN OR ITALIAN**—The leaves of this variety are flat, deeply cut but not curled. Very desirable for flavoring soups and stews and for drying. It is a favorite on account of its very dark green leaves as well as its hardiness of plant. The curled sorts are more extensively used for garnishing. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 45c; lb., 75c; 10 lbs., \$6.50.

**HAMBURG ROOTED**—The edible roots resemble small parsnips. Is esteemed for flavoring soups, stews, etc. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 45c; lb., 75c; 10 lbs., \$6.50.

## Pumpkin

(*Zucca, Calabaza (Zapallo), Kurbiss*)

**CULTURE**—One ounce of seed will plant twenty hills; three pounds an acre. Pumpkins are very similar in culture to the squashes and other vine crops, except that they are not so particular as to soil and cultivation. In the latitude of Denver they may be planted during May in the garden or in the corn field in hills 6 to 8 feet each way.

**JAPANESE PIE**—The flesh is thick, of a rich salmon color, fine grained, dry and sweet. Seed cavity very small. Very early, productive and highly esteemed for pies or cooking. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 55c; lb., \$1.00; 10 lbs., \$9.00.

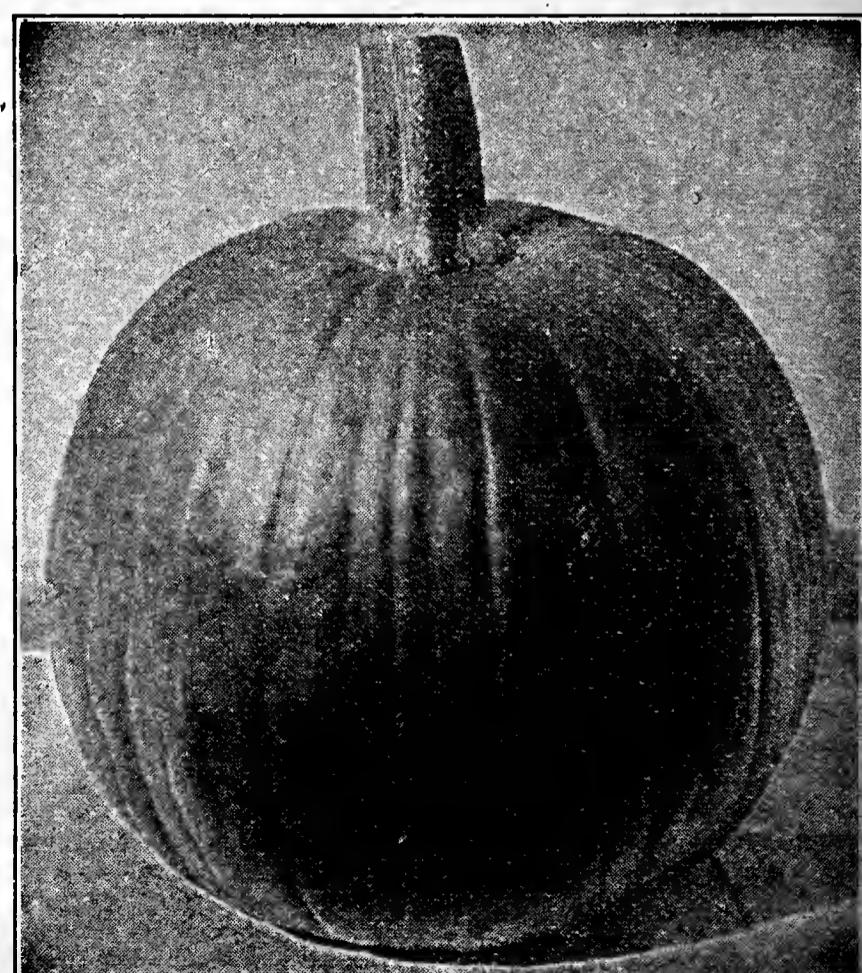
**GREEN STRIPED CUSHAW**—18 inches to 2 feet long and 12 inches in diameter; green striped with crooked neck. Flesh thick, yellow, coarse, but sweet. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 55c; lb., \$1.00; 10 lbs., \$9.00.

**TENNESSEE SWEET POTATO**—This excellent sort resembles a sweet potato in flavor. Is pear-shaped and slightly ribbed. The color is a creamy white, sometimes slightly striped with green. Flesh thick, light-colored, fine-grained, sweet and delicious. Fine for pies. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 35c;  $\frac{1}{2}$  lb., 65c; lb., \$1.25; 10 lbs., \$10.00.

**CONNECTICUT FIELD**—A large, round or slightly oval pumpkin. Skin reddish-orange color, with rich orange-yellow flesh. Grown extensively for stock feeding; also good for pies. Generally planted with corn. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40; lb., 70c; 10 lbs., \$6.50.

**LARGE CHEESE OR KENTUCKY FIELD**—Large, round, somewhat flattened. A fine keeper. Flesh yellow, very thick and of excellent quality. Fine for family or market use; also grown for stock feeding. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 70c; 10 lbs., \$6.50.

**KING OF THE MAMMOTH OR POTIRON**—The largest of all pumpkins, often 2 feet or more in diameter, and sometimes weighing over 100 pounds. The skin is salmon-yellow; the flesh thick and of a bright yellow; often used for pies, but grown principally for stock feeding. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 55c; lb., \$1.00; 10 lbs., \$9.00.



Small Sugar or Pie

## Peppers

(Peperone, Pimiento, Pfeffer)

**CULTURE**—One ounce of seed should produce 1,000 to 1,500 plants. A warm, moist soil is best suited for peppers. For early green peppers, sow seed in hotbeds in January, February or March, according to locality and climate. Transplant to the field as soon as weather and soil in your locality will permit, and when danger from frost has passed. Pepper seeds are slow and hard to germinate, therefore those sown early require a good hotbed with plenty of heat. Otherwise the seed will rot before they sprout. Pepper plants are very tender and easily killed by frost.

**LONG RED CAYENNE**—A well-known medium early variety having a slender, twisted and pointed pod about 4 inches long. The color is deep green when fruit is young, bright red when ripe. The flesh is extremely strong and pungent. Postpaid: Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.20;  $\frac{1}{2}$  lb., \$2.25; lb., \$4.00.

**RED CHILI**—A late variety. The pods are bright, rich red, about 2 inches long,  $\frac{1}{3}$  to  $\frac{1}{2}$  inch in diameter at the base, tapering to a sharp point, and exceedingly pungent when ripe. Postpaid: Pkt., 10c; oz., 50c;  $\frac{1}{4}$  lb., \$1.35;  $\frac{1}{2}$  lb., \$2.50; lb., \$4.50.

**PIMENTO**—Fruit of medium size, pointed or top-shaped, very smooth and glossy; exceptionally thick flesh which is firm, sweet, and of the very best quality for either salads, stuffing or canning. The plants are quite tall and produce a great many peppers, but they mature quite late. Postpaid: Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.20;  $\frac{1}{2}$  lb., \$2.25; lb., \$4.00.

**MIKADO OR WORLD BEATER**—The shape is like Ruby King and the size almost equal to Chinese Giant but not so broad. A vigorous grower, sure cropper, and very prolific. The fruit is a beautiful scarlet, exceedingly mild; flesh thick and firm, making this variety an excellent shipper. Postpaid: Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.20;  $\frac{1}{2}$  lb., \$2.25; lb., \$4.00.

**RUBY KING**—An improved American variety, very large and attractive. The plants are about 2  $\frac{1}{2}$  feet high, vigorous, compact and productive. The fruits are often 4 to 4  $\frac{1}{2}$  inches long and of deep green color when young, bright red when ripe. The flesh is thick and mild flavored. One of the best varieties for mangoes or stuffed peppers. Postpaid: Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.20;  $\frac{1}{2}$  lb., \$2.25; lb., \$4.00.

**RUBY GIANT**—A beautiful large variety, being a cross between the Ruby King and Chinese Giant. It possesses the large size of the Chinese Giant and the splendid shape of the Ruby King. The flesh is mild and sweet, making a good salad sliced and served with tomatoes. This new pepper will undoubtedly become very popular both in the home and market garden. Postpaid: Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.25; lb., \$4.25.

**CRIMSON GIANT**—An early maturing large-size sweet pepper, similar in shape to Bull Nose, but much larger and flesh thicker. It is exceptionally mild and very prolific. Color of fruit green when young, deep crimson when matured. Postpaid: Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.25; lb., \$4.25.

**HARRIS EARLY GIANT**—Earliest of All Large-fruited sorts—A large, sweet pepper, producing good crops, even in the northern states. The plants are of vigorous growth and covered with enormous peppers about 4 inches high and 3 inches through. The peppers are deep green, turning to brilliant red, with thick flesh of sweet, pleasant flavor. Fruits begin setting when the plants are quite small. A very valuable pepper for the home-garden and profitable for market. Postpaid: Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.25; lb., \$4.25.

**CHINESE GIANT**—Plant dwarf, fruit of mammoth size, very broad but rather short. It is very late and a rather shy yielder. Popular on account of its large size and mild flavor. Postpaid: Pkt., 10c; oz., 50c;  $\frac{1}{4}$  lb., \$1.40;  $\frac{1}{2}$  lb., \$2.50; lb., \$4.75.

**CALIFORNIA WONDER**—Resembles Chinese Giant in the large size and "blocky" form of its fruit, but having an extremely thick flesh, not possessed by that variety; crimson fruit. Measures 4  $\frac{1}{2}$  inches in length by 4 inches in diameter, mild and sweet; mid-season. Postpaid: Pkt., 10c; oz., 50c;  $\frac{1}{4}$  lb., \$1.50;  $\frac{1}{2}$  lb., \$2.50; lb., \$4.75.

Pepper seedlings will "damp-off" very easily in the greenhouse. We have found that watering the flats or seed bed with a solution of SEMESAN will very effectively stop damping-off. One ounce of SEMESAN makes 3 gallons of solution.

## Seed Potatoes

**CULTURE**—500 to 600 pounds will plant an acre. Any good, well-drained soil will produce potatoes under right climatic conditions and proper cultivation. For early potatoes that mature in 10 to 12 weeks from the time of planting, the soil should be particularly rich. A rich clover or alfalfa sod manured and broken the year before and planted to corn or some other crop that is cultivated well and often, is in best shape for growing a good crop of nice, clean potatoes. The first requisite for a crop of good potatoes is good seed, and the next is good soil—then proper cultivation. Cut the potatoes so that each piece will have two or more eyes, then plant in furrows 6 inches deep, 2  $\frac{1}{2}$  to 3 feet apart, and 12 to 15 inches apart in the row. Cover 3 to 4 inches deep, and about the time the potatoes are ready to come through run a harrow over the ground, which will level up the furrows, making a smooth ground upon which to work when the potatoes come through and are ready for cultivation.

**EARLY OHIOS**—This is the earliest, surest, best and most profitable of the early varieties, and a decided favorite with those growing potatoes for the early market, as it can be marketed before it is fully grown. Our seed of these is direct from Minnesota, freshly assorted and true to name.

**BLISS TRIUMPH**—Tubers are medium size, round and uniform in shape, with but few small ones; eyes slightly depressed, color a beautiful light red. Its beauty, productiveness and good qualities in general make it one of the best early market varieties.

**RED McCLURE**—This is grown very largely on the Western Slope and in the mountains, where it seems to thrive best. It is very hardy and vigorous, oval in shape, and attractive in appearance. Cooks mealy and dry, and is of fine flavor.

**PRICE, NOT POSTPAID:** On any variety, lb., 10c; 10 lbs., 75c; 25 lbs., \$1.50. If wanted by parcel post, add postage at zone rate. **WRITE US FOR PRICES ON LARGER QUANTITIES.**

**RURAL NEW YORKER**—This is the most popular, and by far the best potato grown in the Greeley district. It is large, oblong, smooth and very attractive, and commands top prices wherever sold.

**IRISH COBBLER**—An extra early variety, maturing only a week or ten days later than the Early Ohio. The tubers are round, uniform in size and shape; the eyes are strong, well developed and slightly indented. The flesh is a creamy white, of fine quality and flavor. It is a vigorous grower, good keeper, and ripens uniformly. Because of its earliness and prolific growth, it is the principal variety raised on the Western Slope for the early market.

**BURBANK**—A large white potato of excellent quality. Fine for main crop and a splendid keeper.

**SEMESAN BEL**—A new, safe, convenient and effective method of treating seed potatoes. By using Semesan Bel you have simply to mix, dip, drain dry, and your seed potatoes are ready for planting. One pound treats 800 to 1,000 pounds.

## Radish

(Ravanello, Rabanitoor Rabano, Radies)

**CULTURE**—One ounce of seed will sow 100 feet of drill; 8 to 10 pounds will plant an acre.

All varieties thrive best in light, sandy loam. For early use, sow in the hotbed in February, giving plenty of ventilation, or outside in the garden, in drills, as soon as the soil is warm and dry, covering the seed about  $\frac{1}{2}$  inch deep. Sow every two weeks from March until September for a succession of crisp radishes for table use. Radishes must grow rapidly to be crisp, mild-flavored and tender.

**FRENCH BREAKFAST**—Of quick growth, very mild and tender, of oval form, scarlet tipped with white. One of the best real early sorts for the home-garden. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**NON PLUS ULTRA**—A pretty little round radish, deep, rich scarlet in color, with very small tops and crisp, tender, white flesh. A little earlier than Scarlet Globe, but not quite so large. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

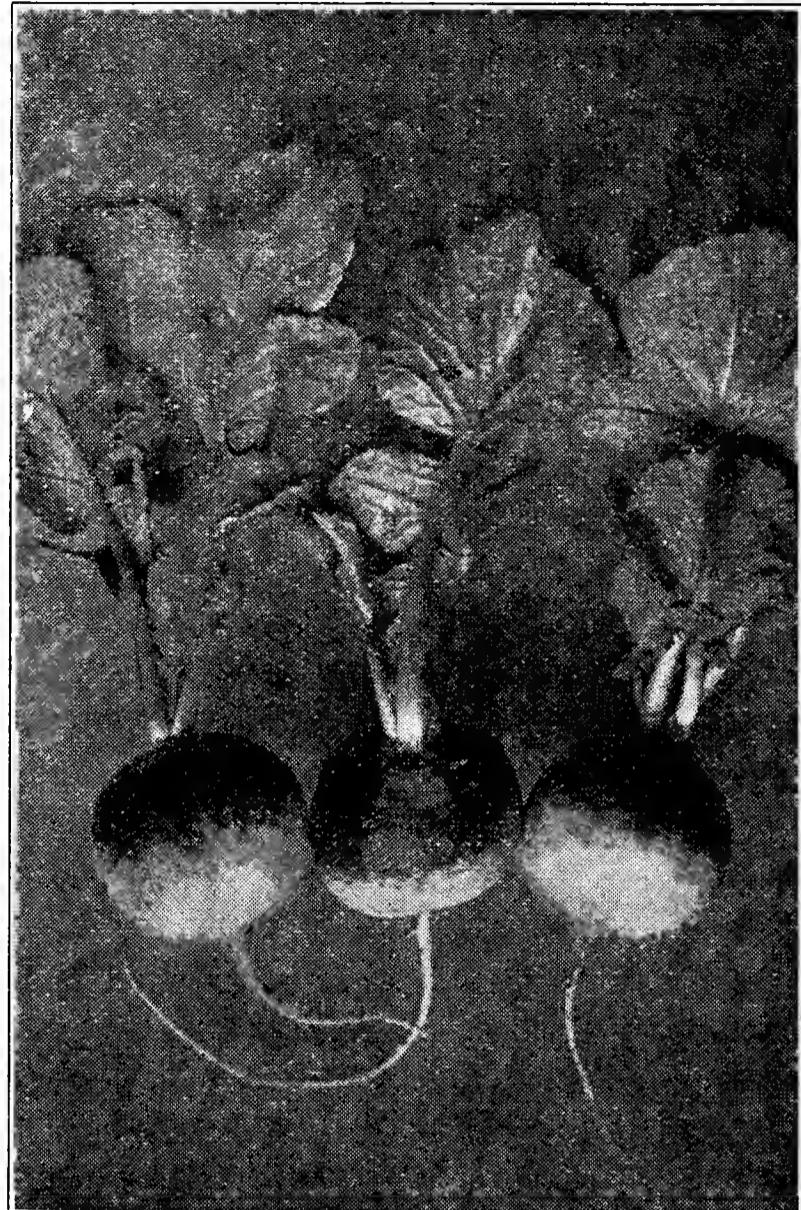
**PERFECTION WHITE TIPPED (SPARKLER)**—A splendid variety of the Scarlet Turnip White-tipped type, but showing more white, practically the whole lower part being white in many specimens, while the upper half is a bright scarlet. One of the most attractive varieties grown. Very crisp and of good quality. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**IMPROVED CHARTIER**—A very handsome sort; roots 7 to 8 inches long and rather thick, deep scarlet at the top, shading off to pure white at the tip; somewhat later in maturing than other long scarlet sorts. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**EARLY SCARLET GLOBE**—We have an exceptionally fine stock of this superb variety. It is one of the very earliest of the forcing radishes and does equally well outside; roots are of fair size, globe-shaped and with a very small top; always crisp and tender; color a bright scarlet. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**SAXA**—This variety is of a beautiful scarlet color, round as a marble, and having a very small top and tap root. It comes so quick that it has been placed on the dining-table in three weeks from the time of sowing seed. The flesh of Saxa is very crisp and juicy. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**CRIMSON GIANT**—It grows much larger than other early varieties, but does not become pithy, even when fully twice as large in diameter and a week older. It has largely replaced Early Scarlet Turnip. Beautiful crimson-carmine; turnip-shaped; flesh firm, crisp and tender. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.



Perfection White Tipped

**CINCINNATI MARKET**—An improved strain of Long Scarlet, being slightly larger and with a very small top; roots 6 to 7 inches long, scarlet colored; flesh white, almost transparent; brittle and crisp. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**WHITE ICICLE**—One of the best early, long, white sorts. Suitable either for forcing or growing outside. Roots somewhat shorter and tops smaller than White Vienna. Very crisp and tender and of a beautiful waxy white. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

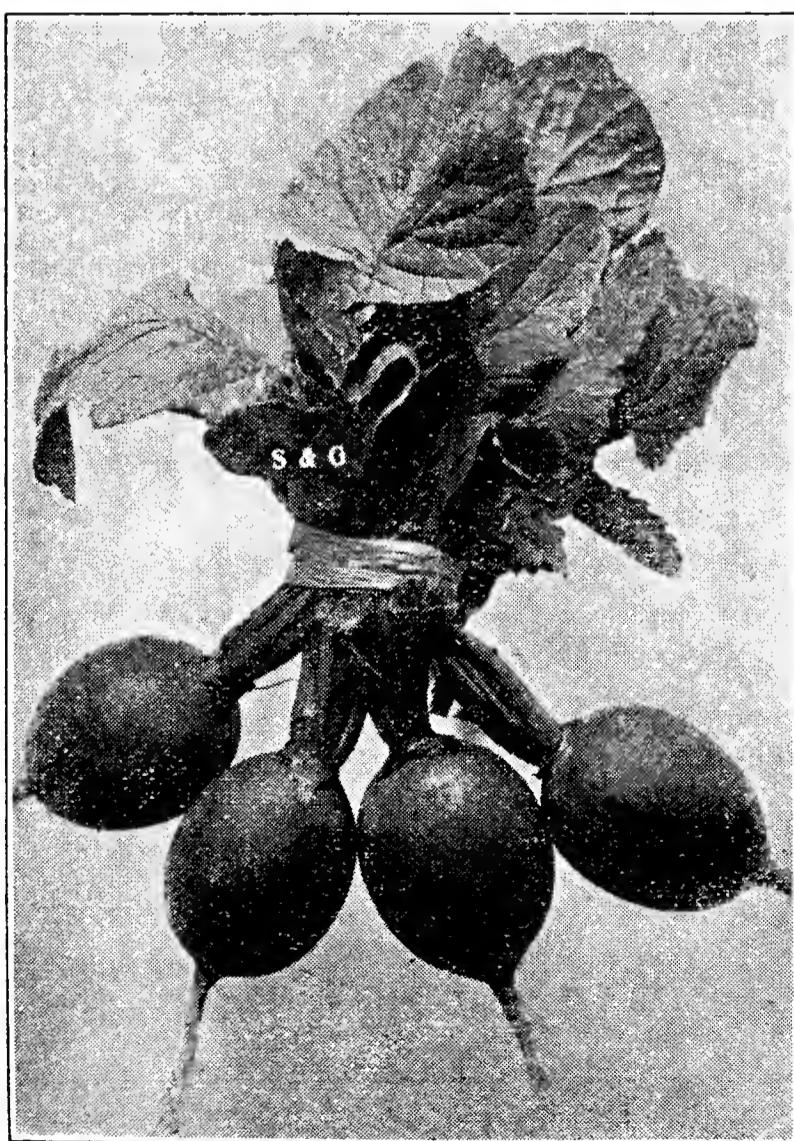
**CALIFORNIA MAMMOTH WHITE (Winter)**—The roots of this very large white winter sort grow 9 to 12 inches long, by 3 to 4 or more inches in diameter just below the shoulder, tapering regularly to the tip. The flesh is very crisp and solid decidedly pungent but well flavored, keeping well through the winter. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 50c; lb., 90c; 10 lbs., \$7.50.

**CHINA ROSE (Winter)**—A very handsome and distinct bright rose variety, crisp and tender; cylindrical in shape, very smooth. Very desirable sort. Keeps splendidly through autumn and winter. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 50c; lb., 90c; 10 lbs., \$7.50.

**LONG BLACK SPANISH (Winter)**—Grows 5 to 8 inches long and is 1 to 1  $\frac{1}{4}$  inches through at top. Skin black; flesh white and firm. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 50c; lb., 90c; 10 lbs., \$7.50.

**ROUND BLACK SPANISH (Winter)**—Similar to Long Black Spanish, except in shape. Fine for winter. Postpaid: Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 50c; lb., 90c; 10 lbs., \$7.50.

**RADISH SEED FOR GREENHOUSE FORCING**—Special strains of Scarlet Globe and Saxa grown from transplanted roots. Postpaid: oz., 15c;  $\frac{1}{4}$  lb., 35c;  $\frac{1}{2}$  lb., 60c; lb., \$1.00; 10 lbs., \$9.00.



Early Scarlet Globe

## Rhubarb

**CULTURE**—Sow in April in drills a foot apart, covering the seed  $\frac{3}{4}$  inch, thinning out to about 10 to 12 inches apart in rows when a few inches high. The following spring transplant into deep, rich soil, about 3 feet apart each way. One ounce to 75 feet of drill.

**LINNAEUS**—The stalks are large and red and exceedingly juicy, rich and spicy. Postpaid: Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c.

**VICTORIA**—The stalks of this variety are immensely thick, a rich crimson in color, and of very fine quality. Postpaid: Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c.

## Spinach

(Spinace, Espinaca, Spinat)

**CULTURE**—One ounce of seed will plant 100 feet of drill; 10 pounds an acre. Spinach is an important crop of easy culture for the market gardener. For spring and early summer use, sow in drills 1 foot apart and 1 inch deep, as early as the ground can be worked, and every two weeks thereafter for a succession crop. For winter and early spring use, sow in September in well-manured ground. Cover with straw on the approach of cold weather.

**GAUDRY, GIANT THICK LEAVED**—A rapid growing variety producing early in the season a mass of rather smooth, thick, rounded leaves of very large size. It stands well without bolting, yields a greater bulk than other varieties and is highly recommended for both the home and market garden, fine for canning. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 45c; 10 lbs., \$3.25. Not Postpaid: 25 lbs., \$5.00; 100 lbs., \$18.00.

**PRINCESS JULIANA**—The Juliana is said to be the most thoroughbred type of long-standing spinach ever introduced. It is wonderfully uniform in type and most attractive in appearance. In form it is a dense, compact rosette with very short stems, the leaves are large and rounded, thick in texture, very much blistered and crumpled and of an intense, very dark green color; will hold up well in shipping to distant markets. It is noted for its freedom from male plants and its slowness to go to seed. Suitable for summer and fall planting. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 45c; 10 lbs., \$3.25. Not Postpaid: 25 lbs., \$5.00; 100 lbs., \$18.00.

**VIROFLAY MONSTROUS LEAVED**—An early and vigorous growing round seeded variety. The leaves are bright green, broad and thick with long stem, usually broad arrow-shaped, but sometimes rounded. The surface is fairly smooth or sometimes slightly crumpled. It is a most desirable bunching sort for market gardeners. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 40c; 10 lbs., \$2.75. Not postpaid: 25 lbs., \$4.25; 100 lbs., \$15.00.

**BLOOMSDALE SAVOY LEAVED (Reselected)**—Very early and hardy, and one of the best for market and canning. Plant of upright growth with a tendency to go quickly to seed in hot weather. Stems 3 inches long, leaves of medium size. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 40c; 10 lbs., \$2.75. Not postpaid: 25 lbs., \$4.25; 100 lbs., \$15.00.

**BLOOMSDALE—LONG STANDING**—This differs slightly from the older strains of Savoy Leaved, in being thicker and rounder in leaf. It comes into use about a week later than other strains of Savoy Leaved, but it seems to stand unfavorable weather conditions without bolting to seed nearly as well as King of Denmark. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 45c; 10 lbs., \$3.25. Not postpaid: 25 lbs., \$5.00; 100 lbs., \$18.00.

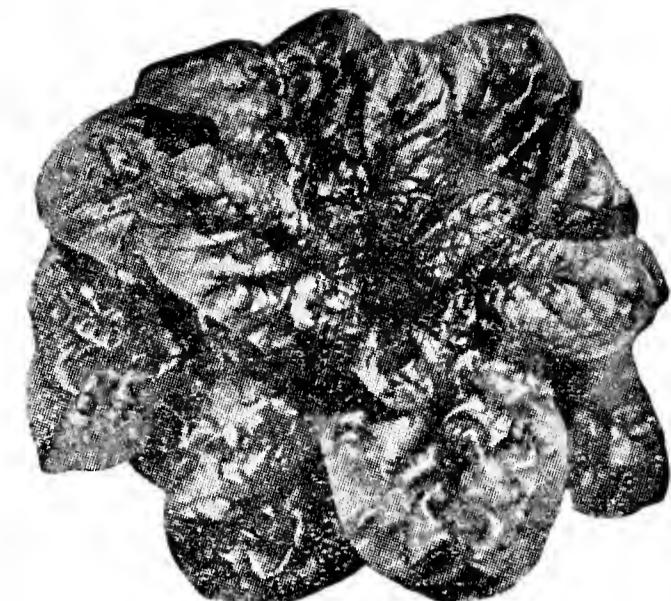
**CULTURE**—After danger of frost is past, plant in a warm, well-pulverized, rich soil, mixing well-rotted manure, in each hill. Plant 8 or 10 seed to the hill, about May 10th, for the summer varieties 4 to 6 feet apart, and the winter sorts 8 to 10 feet about July 1st. When well grown, thin out, leaving three of the strongest plants in each hill. Do not bruise or break the stems of the winter squashes when gathering. Plant summer sorts, 1 ounce to 25 hills; 3 to 4 pounds to an acre; winter sorts, ounce to 10 hills; 3 to 4 pounds to an acre.

**EARLY WHITE BUSH SCALLOPED**—A well-known variety of dwarf habit and upright growth. Surface comparatively smooth. Color, greenish-white while young, then changing to creamy white. One of the best and most popular sorts. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 45c; lb., 85c; 10 lbs., \$7.50.

**FORDHOOK**—Oblong shaped, with cream-colored skin. Flesh light yellow, very thick and of excellent quality. Keeps well if allowed to ripen. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 45c; lb., 85c; 10 lbs., \$7.50.

**COCOZELLA**—A summer variety of bush habits; fruits oblong, 12 to 16 inches in length and 5 inches in diameter; color, dark green, marbled with yellow and dark green stripes, carrying five furrowed ribs the length of the fruit. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 55c; lb., \$1.00; 10 lbs., \$9.00.

**GIANT SUMMER STRAIGHTNECK**—This new variety has become very popular. The squash is the same as Early Giant Crookneck, but without the curved neck of that variety. Our seed will produce a high percentage of squash with straight necks but some crooknecks will appear. This seed is as nearly true as can be obtained at the present time. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1/2 lb., 55c; lb., \$1.00; 10 lbs., \$9.00.



Bloomsdale Savoy

**KING OF DENMARK**—Although the plants are ready for use almost as soon as the medium early sorts, they remain in good condition from a week to two weeks after all other varieties have gone to seed. The plants are of rapid growth, leaves crumpled or blistered and are of a dark green color. The leaves are thick, stand well after cutting, and are of good quality. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 45c; 10 lbs., \$3.25. Not postpaid: 25 lbs., \$5.00; 100 lbs., \$18.00.

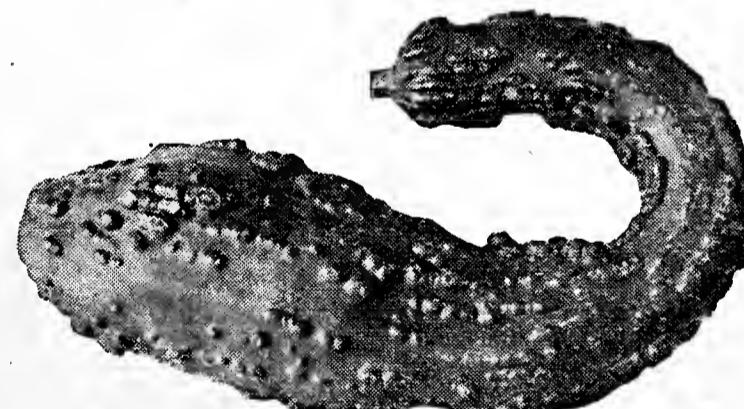
**HOLLANDIA (Prickly Winter)**—A long standing, late maturing sort; plant very large, vigorous and hardy; leaves round, thick, medium sized and dark green. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 40c; 10 lbs., \$2.75. Not Postpaid: 25 lbs., \$4.25; 100 lbs., \$15.00.

**VICTORIA**—Makes a dense, flat rosette with very short petioles. Leaves very large, thick and much wrinkled blunt or rounded and dark green in color. Stands hot weather well and is exceedingly slow to shoot to seed. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 15c; 1/2 lb., 25c; lb., 40c; 10 lbs., \$2.75. Not Postpaid: 25 lbs., \$4.25; 100 lbs., \$15.00.

**NEW ZEALAND**—Unlike true spinach in type and in that it thrives during hot weather and in any soil, rich or poor. The tender shoots are of good quality and may be cut throughout the summer. The plant becomes very large and spreading. The leaves are comparatively small, broad and pointed. Plant three or four seeds in hills two feet apart each way. Germination of the seed can be hastened by soaking in warm water twenty-four hours. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 20c; 1/2 lb., 35c; lb., 65c; 10 lbs., \$6.00.

## Squash

(Zucca, Calabaza ozapallo, Kulchen-Kurbiss)



Summer Crookneck

**GIANT SUMMER CROOKNECK**—The largest and one of the earliest summer varieties; fruit often 2 feet long, very warty and deep orange in color. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1/2 lb., 45c; lb., 85c; 10 lbs., \$7.50.

**BANANA SQUASH**—An old favorite and without question the very finest of the winter squashes. A wonderful yielder and good keeper. Two or three feet long and with a tough shell and delicious meat. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 35c; 1/2 lb., 60c; lb., \$1.00; 10 lbs., \$9.00.

**TABLE QUEEN OR ACORN**—The fruit is dark green, 4 to 5 inches long and 4 inches in diameter, deeply ribbed and with a hard shell. It is of a very convenient size for baking in the shell. The flesh is deep yellow, sweet, of fine flavor, dry and free from stringiness. The squash will keep all winter and should be allowed to ripen thoroughly before using. Postpaid: Pkt., 5c; oz., 10c; 1/4 lb., 35c; 1/2 lb., 60c; lb., \$1.00; 10 lbs., \$9.00.

## Squash—Continued

**GOLDEN HUBBARD**—Similar to Hubbard, except that it is smaller, matures earlier, and is of an orange red color except for a bit of olive green on the blossom end. **Postpaid:** Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c;  $\frac{1}{2}$  lb., 65c; 1 lb., \$1.25; 10 lbs., \$10.00.

**CHICAGO WARTY HUBBARD**—This strain of Hubbard squash produces very large fruit covered with warts and of dark green color. They sell well in the market, as the fruit is very handsome and of the largest size. The seed we offer is a fine strain of the true Chicago Warted Hubbard. **Postpaid:** Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c;  $\frac{1}{2}$  lb., 65c; 1 lb., \$1.25; 10 lbs., \$10.00.

**IMPROVED HUBBARD**—The standard winter squash. The fruit is of large size, heavy and of fine quality, cooking dry and without stringiness. The shell is smooth or somewhat warted, hard and deep green. When properly stored in a dry, moderately warm place this squash will keep all winter. **Postpaid:** Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c;  $\frac{1}{2}$  lb., 65c; 1 lb., \$1.25; 10 lbs., \$10.00.

**DELICIOUS**—A very early winter variety of medium size; shell moderately hard, very thin, flesh thick, fine grained and of a light yellow color. It varies somewhat in color and form, usually oval-shaped, with green, smooth skin, sometimes slightly mottled. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 35c;  $\frac{1}{2}$  lb., 60c; 1 lb., \$1.00; 10 lbs., \$9.00.



Chicago Warty Hubbard

## Salisfy or Vegetable Oyster

(Sassefria, Salsifis blanco, Haferwurzel)

**CULTURE**—One ounce will sow 75 feet of drill. A very delicate and nutritious vegetable especially esteemed for its peculiar oyster flavor. Sow the seed early in the spring, in drills 12 inches apart and 1 inch deep, thinning out the young plants to 6 inches. The roots will be ready for use in October, when a supply should be taken up and stored like carrots. Those remaining will suffer no injury by being left in the ground till spring.

**MAMMOTH SANDWICH ISLAND**—A popular Market Garden sort, producing good size roots; comparatively smooth. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 35c;  $\frac{1}{2}$  lb., 65c; 1 lb., \$1.25.

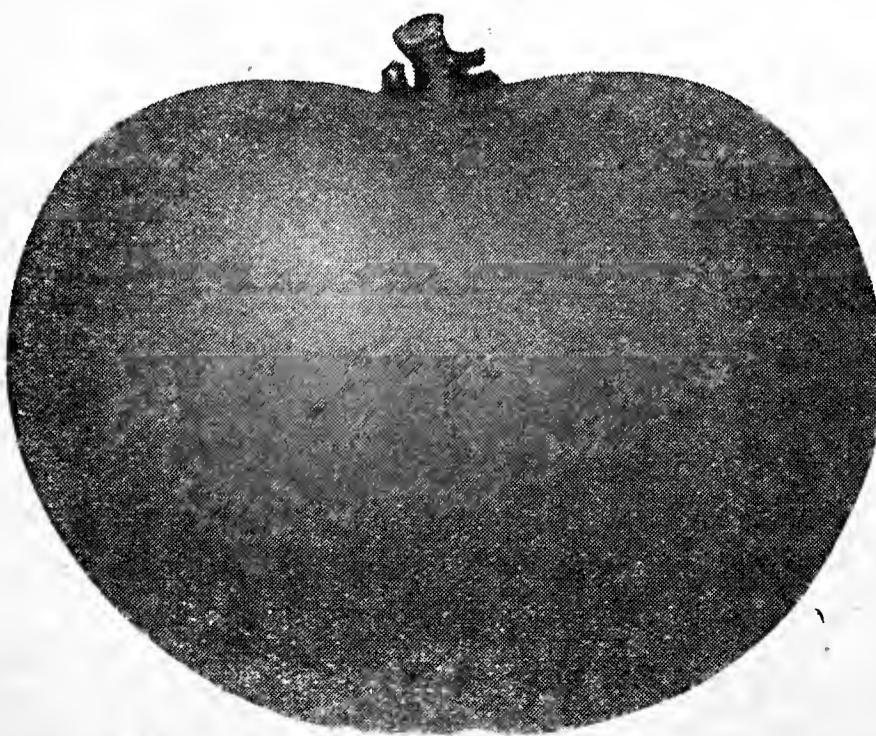
## Tomatoes

(Pomo d'ore, Tomate, Liebesapfel, Tomate)

**CULTURE**—One ounce of seed should produce 2,000 plants. Tomatoes do best on light, warm, not over-rich soil. Success depends in a large measure upon securing a rapid, vigorous, unchecked growth during the early part of the season. For first early tomatoes select varieties of the earliest types, and start the plants under glass in hot beds or greenhouses during February and March. When the plants are about 2 inches high they should be transplanted to flats, pots or plant boxes. Never crowd the plants, but keep them short and stocky. Plants already in bloom if in pots or boxes may be transplanted to the open ground without disturbing their roots, and will continue to bloom and fruit without check. When danger from frost has passed, set the plants in the field in rows about 4 feet apart each way, in warm, mellow soil of fair fertility. For main crop the plants can be started somewhat later in hot beds or cold frames and then set in the open ground the same as the early varieties. Tomatoes require very little water, just enough to keep them in good growing condition; too much water will cause them to blight. Cultivate often and thoroughly as long as the vines will permit. The last two or three workings of the soil should be shallow or the crop may be badly injured.

**PRITCHARD OR SCARLET TOPPER**—The Pritchard is a cross between Marglobe and Cooper's Special, it inherited fine qualities from each parent. Fruits are of good size, smooth, globular, extremely solid and heavy with thick walls and of deep scarlet color. It is most uniformly fruited, exceedingly productive and borne in clusters. Outstanding for home and market garden use and for long distance shipping. It was developed by the U. S. Dept. of Agriculture. **Postpaid:** Pkt., 5c; oz., 35c;  $\frac{1}{4}$  lb., \$1.10;  $\frac{1}{2}$  lb., \$2.00; 1 lb., \$3.75.

**BREAK O'DAY**—A new wilt resistant tomato that is nearly as early as Earliana and as productive as Marglobe. Its fruits are large, smooth, meaty, red and globular, very similar to Marglobe but usually larger. **Postpaid:** Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.00; 1 lb., \$3.75.



Clark's Early

**COOPER'S SPECIAL**—Quite similar to Livingston's Globe, although less tall, more compact and somewhat earlier in habit; fruit medium size, globe-shaped, solid and purplish-pink in color. A profitable shipping variety. **Postpaid:** Pkt., 5c; oz., 35c;  $\frac{1}{4}$  lb., \$1.15;  $\frac{1}{2}$  lb., \$2.00; 1 lb., \$3.75.

**PONDEROSA OR BEEF STEAK**—A purplish pink tomato of the largest size. Vines vigorous and very productive. Fruit very solid with but few seeds, and very fine for slicing. **Postpaid:** Pkt., 5c; oz., 40c;  $\frac{1}{4}$  lb., \$1.50;  $\frac{1}{2}$  lb., \$2.75; 1 lb., \$5.00.

**EARLIANA**—This is still the best extra early Tomato for the family garden, as it bears a very heavy crop quite early in the season. It has excellent flavor and is remarkably solid for an early sort. **Postpaid:** Pkt., 5c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00;  $\frac{1}{2}$  lb., \$1.75; 1 lb., \$3.25.

**LIVINGSTON'S BEAUTY**—This is by far the most popular and largely grown tomato in the vicinity of Denver and throughout the Middle West. The vines grow strong and hardy, with a heavy foliage, which protects the fruits, preventing them from sunburning during the extreme hot weather. The fruits are produced in clusters of 4 to 6; large, smooth and early. Color, deep, rich purple red; flesh, firm, solid, excellent quality, with very small seed cells. Noted for its long shipping qualities. May be picked quite green, yet ripens up nicely. **Postpaid:** Pkt., 5c; oz., 35c;  $\frac{1}{4}$  lb., \$1.10;  $\frac{1}{2}$  lb., \$2.00; 1 lb., \$3.75.

**JUNE PINK**—Ripens as early as Earliana. A prolific bearer, clusters of 6 to 8 large fruits being borne close to the main stem, a large percentage of the fruit being produced very early. The fruit is of medium size, uniform, smooth, and attractively shaped. In color, it is a bright, pleasing pink. **Postpaid:** Pkt., 5c; oz., 35c;  $\frac{1}{4}$  lb., \$1.10;  $\frac{1}{2}$  lb., \$2.00; 1 lb., \$3.75.

**CLARK'S EARLY**—This is an early variety of unsurpassed bright scarlet color. The fruits are large, regular in shape and exceptionally deep through from stem to bottom. The vines are vigorous and prolific and bear their fruit in clusters that are most attractive. This variety is desirable for canning and is also good for slicing. It has a good interior color and small seed pockets with little core. **Postpaid:** Pkt., 5c; oz., 35c;  $\frac{1}{4}$  lb., \$1.10;  $\frac{1}{2}$  lb., \$2.00; 1 lb., \$3.75.

## Tomatoes—Continued

**STONE**—The standard and general favorite with truckers and canners; always dependable, very vigorous and productive; fruits round, large, solid, smooth and deep red in color. **Postpaid:** Pkt., 5c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00;  $\frac{1}{2}$  lb., \$1.75; lb., \$3.25.

**BONNY BEST**—An extra early, scarlet, round fruited variety of great value. The fruit is very even in size and shape. **Postpaid:** Pkt., 5c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00;  $\frac{1}{2}$  lb., \$1.75; lb., \$3.25.

**CHALK'S EARLY JEWEL**—One of the best early varieties; about a week later than Earliana. The fruit of the Jewel, however, averages larger, is uniform, smooth, solid, of fine quality, and brilliant scarlet; a heavy cropper. **Postpaid:** Pkt., 5c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00;  $\frac{1}{2}$  lb., \$1.75; lb., \$3.25.

**RED HEAD**—An exceptionally fine, large bright red variety, as early as Chalk's Jewel and nearly as large as Stone and as productive; fruits nearly globe-shaped, very solid; vine of medium growth; an excellent canning variety. **Postpaid:** Pkt., 5c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00;  $\frac{1}{2}$  lb., \$1.75; lb., \$3.25.

**MARGLOBE**—Introduced by the United States Department of Agriculture for wilt resistance. Claimed also to be resistant to "nail-head rust" which attacks the fruit. It is a main-crop, scarlet fruited variety of medium size, smooth, solid, and deep from stem to blossom. Vines make a medium to heavy growth; fruits set in clusters of 5 to 7. **Postpaid:** Pkt., 5c; oz., 35c;  $\frac{1}{4}$  lb., \$1.10;  $\frac{1}{2}$  lb., \$2.00; lb., \$3.75.

In the north it is best to sow tobacco in a hotbed or in a box in the house in March or April and transplant the seedlings once before setting out in the open ground, which should not be done until danger of frost is past. Set the plants in rows  $3\frac{1}{2}$  feet apart.

**CONNECTICUT SEED LEAF**—Most popular variety for the north. Very hardy. **Postpaid:** Pkt., 10c; oz., 35c;  $\frac{1}{4}$  lb., \$1.10.

## Tobacco

**HAVANA**—The finest Cuban tobacco so famous for cigars. Leaf thin, long and used principally for cigar wrappers. **Postpaid:** Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25.

## Turnips

(NaVone, Nabe, Weisse)

**CULTURE**—One ounce of seed will sow 150 feet of drill; 2 pounds an acre. Turnips should be grown quickly to be of the best quality and should be sown in good, deep, rich soil. Sow from March to the last of August, as you want the crop to mature, in drills 12 to 18 inches apart, or broadcast if preferred, using about 2 pounds of seed per acre. Rutabagas require a longer time to mature and should be sown earlier in the season. They also require more space and should be planted further apart. The Fly or Flea Beetle is very destructive to turnips, especially during dry weather. The dusting of lime or plaster on the plants when the fly or beetle appears will often check them, or spraying with a solution of kerosene emulsion and nicotine will usually destroy them.

**EXTRA EARLY WHITE MILAN**—Remarkably early; top very small, upright and compact, so that rows can be planted close together. Roots clear white, very smooth, flat and symmetrical; flesh white, sweet and tender. The best sort for growing under sash. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 50c; lb., 90c; 10 lbs., \$8.00.

**EXTRA EARLY PURPLE TOP MILAN**—Similar to White Milan, except roots are a little flatter and purple-red on upper portion. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 50c; lb., 90c; 10 lbs., \$8.00.

**SNOWBALL (Early)**—A quick-growing, ball-shaped, pure white variety, with short top and free from bitter taste. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**WHITE EGG**—A very early variety and the most popular in this territory for both the market and home garden. It is egg-shaped, pure white, fine grained, and does not become strong. It is one of the heaviest croppers and the best all-season turnip on the market. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**PURPLE TOP WHITE GLOBE**—The favorite for the table because of its mild flavor and attractive appearance. It is purple or dark red above ground and pure white below. It is a heavy yielder and keeps well. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**POMERANIAN WHITE GLOBE**—One of the most productive kinds, and in good, rich soil roots will frequently grow to 12 pounds in weight. It is globe-shaped, skin white and smooth. Used for stock feeding; also excellent for table use. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**WHITE FLAT DUTCH**—A very early flat, strap-leaved white turnip of medium size and fine quality. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**PURPLE TOP FLAT STRAP LEAF**—An early flat sort; crown purplish red, white below, flesh white. Used principally for stock. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**DWARF CHAMPION**—Of dwarf, stiff, upright growth, scarcely needing support; early and prolific, smooth, medium-sized fruits of red-purple color. **Postpaid:** Pkt., 5c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.40; lb., \$4.50.

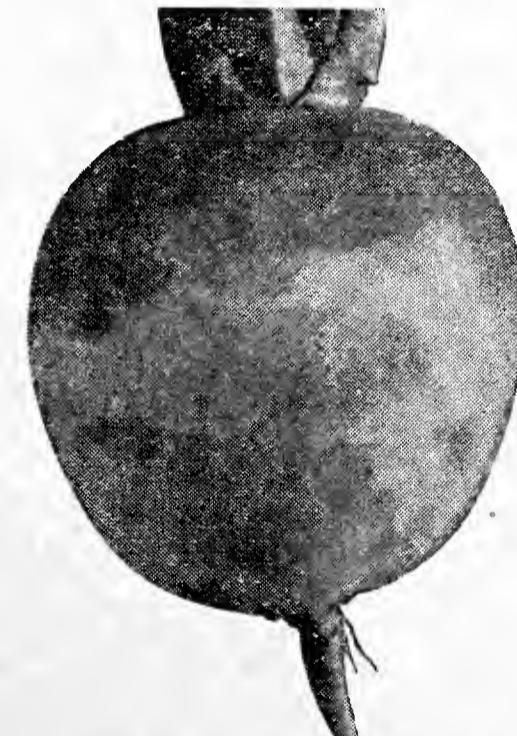
**GOLDEN QUEEN**—Fruit large and smooth. Color, a beautiful golden yellow, sometimes with a slight flush of red. It is as smooth and well shaped as the best of the red varieties and much sweeter, containing very little acid. **Postpaid:** Pkt., 5c; oz., 35c;  $\frac{1}{4}$  lb., \$1.10;  $\frac{1}{2}$  lb., \$2.00; lb., \$3.75.

**YELLOW PLUM**—A small yellow-fruited variety much resembling a plum in size and form; for preserving. **Postpaid:** Pkt., 5c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.40; lb., \$4.50.

**YELLOW PEAR**—Fruits small and pear-shaped, rich, clear yellow in color; used for preserves. **Postpaid:** Pkt., 5c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.40; lb., \$4.50.

**YELLOW HUSK OR GROUND CHERRY**—Very sweet, mild flavor; used for preserves. Vines low and spreading. Fruits small, about  $\frac{1}{2}$  inch in diameter enclosed in a loose husk. The seed we offer is that of the true Yellow Ground Cherry. **Postpaid:** Pkt., 5c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.40; lb., \$4.50.

**RED CHERRY**—Fruits small, about the size of a large cherry, smooth and round; for preserves. **Postpaid:** Pkt., 5c; oz., 40c;  $\frac{1}{4}$  lb., \$1.25;  $\frac{1}{2}$  lb., \$2.40; lb., \$4.50.



Purple Top White Globe

**AMBER GLOBE**—Grows to a large size, skin yellow, with green crown. Flesh yellow. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**SHOGOIN (Folage Turnip)**—A Japanese variety becoming very popular in the South for turnip greens, displacing the Seven Top. Bright green leaves grow upright, about 2 feet. Roots semi-globe, pure white, sweet and tender. Leaves resistant to plant lice. **Postpaid:** Oz., 10c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 50c; lb., 90c; 10 lbs., \$8.00.

**SEVEN TOP**—Grown exclusively for the tops, which are used for greens. **Postpaid:** Oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

## Rutabaga or Swede

**AMERICAN PURPLE TOP (Long Island Improved)**—The best of the yellow purple top rutabagas. The flesh is tender and sweet. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

**BANGHOLM**—An improved strain of Purple Top Rutabaga. The roots are large size, oblong, globular shaped, with small neck, yellow flesh, very dark purple top. A large cropper. **Postpaid:** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; lb., 75c; 10 lbs., \$6.00.

## Vegetable Plants and Roots

In their proper season, we have large quantities of all the plants listed below, well grown and stocky and all grown from Perfegro Tested Seeds. Purchasers may rely upon having their order filled the day after received, in order that we may have the plants freshly pulled, the weather permitting. We recommend having all plants and shrubs sent by Express, as Parcel Post shipments are often delayed, handled roughly, kept too warm or too cold, to carry any distance and arrive in good condition, but if preferred or more convenient to have them delivered by Parcel Post, we will send them that way, and see that they are properly packed for such shipment, but when so sent we cannot guarantee them to arrive on time or in good condition. No packing charge, orders will be booked at any time and plants will be sent when ready. **Not less than 1 dozen plants of a variety will be sold, except of Chives, Mint and Sage; 500 plants will be supplied at the 1000 rate.**

Below we quote prices by Express at purchaser's expense. If wanted by Parcel Post, add 5c dozen, 10c per hundred, 75c per thousand. No plants sent C. O. D.

	Doz.	100	1,000
BROCCOLI. Green Sprouting or Calabrese, ready April 15.....	\$0.25	\$0.85	\$5.00
BRUSSELS SPROUTS. Long Island Improved, ready April 20.....	.25	.85	5.00
CABBAGE, Early Varieties. Golden Acre, Early Jersey Wakefield, Copenhagen Market, Glory of Enkhuizen, Winnigstadt, ready April 5.....	.20	.70	4.50
CABBAGE, Late Varieties. Hollander, Danish Roundhead, Evergreen Hollander, Flat Dutch, Danish Ballhead, ready May 1.....	.20	.70	4.00
CABBAGE, Early Savoy, Drumhead Savoy, ready April 15.....	.20	.70	4.50
CABBAGE RED, Mammoth Red Rock, ready April 20.....	.20	.70	4.50
CAULIFLOWER, Early Varieties. Henderson's Snowball, Early Snowball, Early Dwarf Erfurt, ready April 5.....	.25	.85	5.00
CAULIFLOWER, Late Varieties. Snowball No. 5, Danish Perfection, Improved Self-Protecting Snowball, ready May 1.....	.25	.85	5.00
CELERY, Giant Pascal, Golden Self-Blanching, ready May 1 and later.....	.20	.50	3.50
EGG PLANTS, Black Beauty, New York Improved, ready May 1.....	.30	1.00	8.00
KOHL-RABI, White Vienna, ready May 1.....	.25	.85	5.00
PEPPERS, Sweet Mangos, Chinese Giant, Ruby King, Ruby Giant, World Beater, ready May 1..	.25	1.00	7.50
PEPPERS, Long Red Cayenne, Red Chili, Pimento, ready May 1.....	.25	1.00	7.50
SWEET POTATO PLANTS, Yellow Jersey, ready May 1.....	.25	.85	5.00
TOMATOES, June Pink, Ponderosa, Livingston's Beauty, Earliana, Chalk's Early Jewel, Dwarf Champion, John Baer, Yellow Pear, Break of Day, ready May 15.....	.25	.90	6.00

### Asparagus Roots

Nothing that comes out of the home garden is so much appreciated, as the tender tips and fresh stalks of Asparagus. A small bed of them kept weed-free, or a border along the garden edge, will supply the average table for six weeks or more in late Spring.

In planting, make soil rich; dig trench; set 12 to 18 inches apart, roots spread out, crown 2 inches below surface; and tamp in return soil firmly.

**GIANT ARGENTEUIL**—Probably planted more than any other variety, both for commercial use and the home garden. A very early variety, producing large stalks of even, regular size, of excellent quality. Two Year Old Roots. **Not Postpaid: 12 for 50c; 100 for \$1.75; 1,000 for \$9.50.**

**WASHINGTON**—A new rust-resisting variety of great promise that is being planted largely in this vicinity. The stalks are large, dark green, with a heavy purple over-tone. The tips are tight and firm and do not open out until well out of the ground. Two Year Old Roots. **Not Postpaid: 12 for 60c; 100 for \$2.00; 1,000 for \$11.50.**

### Horse Radish Roots

**ENGLISH OR COMMON**—The variety in general use. Will stand a great deal of hardship and persist in soil year after year. Does best in deep, rich, cool soil. Plant in rows 3 feet apart and 1 foot apart in row. **25c Dozen; \$1.00 per 100, Postpaid.**

### Sage

FORMS a dense mass of beautiful light green leaves, used extensively for flavoring dressings and sauces. Set plants 3 feet apart each way. Strong Transplanted Roots. **25c each, Postpaid.**

### Mint Roots

THE true old-fashioned mint for seasoning; easy to grow and gives results the first season. **Large Clump, 25c; Postpaid.**

### Chives

NO garden should be without a small clump of this little perennial. It is used for seasoning to give a delicate onion like flavor, which is considered indispensable to so many dishes. **Each 25c; Postpaid.**

### Rhubarb Roots

Young roots which, if planted in good soil early in the Spring, will make a strong growth and yield stalks for the table or market the following Spring. The plants increase in size every year and will, with proper care, last for years.

**VICTORIA**—Thick luscious stalks shaded bright crimson. **Each, 15c; 4 for 40c; \$1.00 per dozen, Postpaid.**

**STRAWBERRY**—Our Strawberry Rhubarb has won quite a name for itself among home gardeners. It is early, very juicy, tender, large-stalked and red all the way through. Never tough or stringy. Grow it anywhere in your garden, in a row along the fence, in corners; it will do well anywhere. Strong roots. **Each 20c; 3 for 45c; 12 for \$1.25, Postpaid.**

### Bermuda Onion Plants

Most of our customers have eaten the large sweet Bermuda Onions that are shipped North from Texas during the early spring months and usually sold at high prices. You can raise these in your own garden as easily as you grow Radishes by using Bermuda Onion plants. You can use them as green onions or allow them to grow to their full size; you can have nice large onions by July. Try them once and you will want some every year.

Our Bermuda Onion plants are grown in Texas during the winter months in the open. These plants are extremely hardy, alive, green, well rooted, vigorous and will begin to grow as soon as they are set out.

Put up in bundles of about 100 plants no less than 100 can be sold.

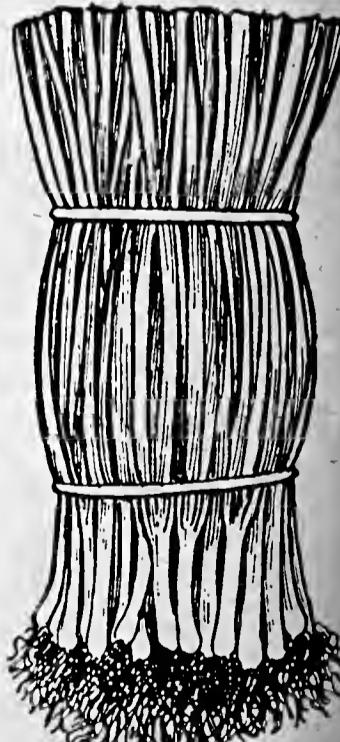
We have the Yellow Bermuda, Crystal Wax, and Sweet Spanish ready after March 15th.

**Prices Postpaid: 100 for 35c; 200 for 50c; 500 for \$1.00; 1000 for \$1.75. Not Prepaid: Crate of 6000 for \$5.75. No orders accepted after May 1st.**

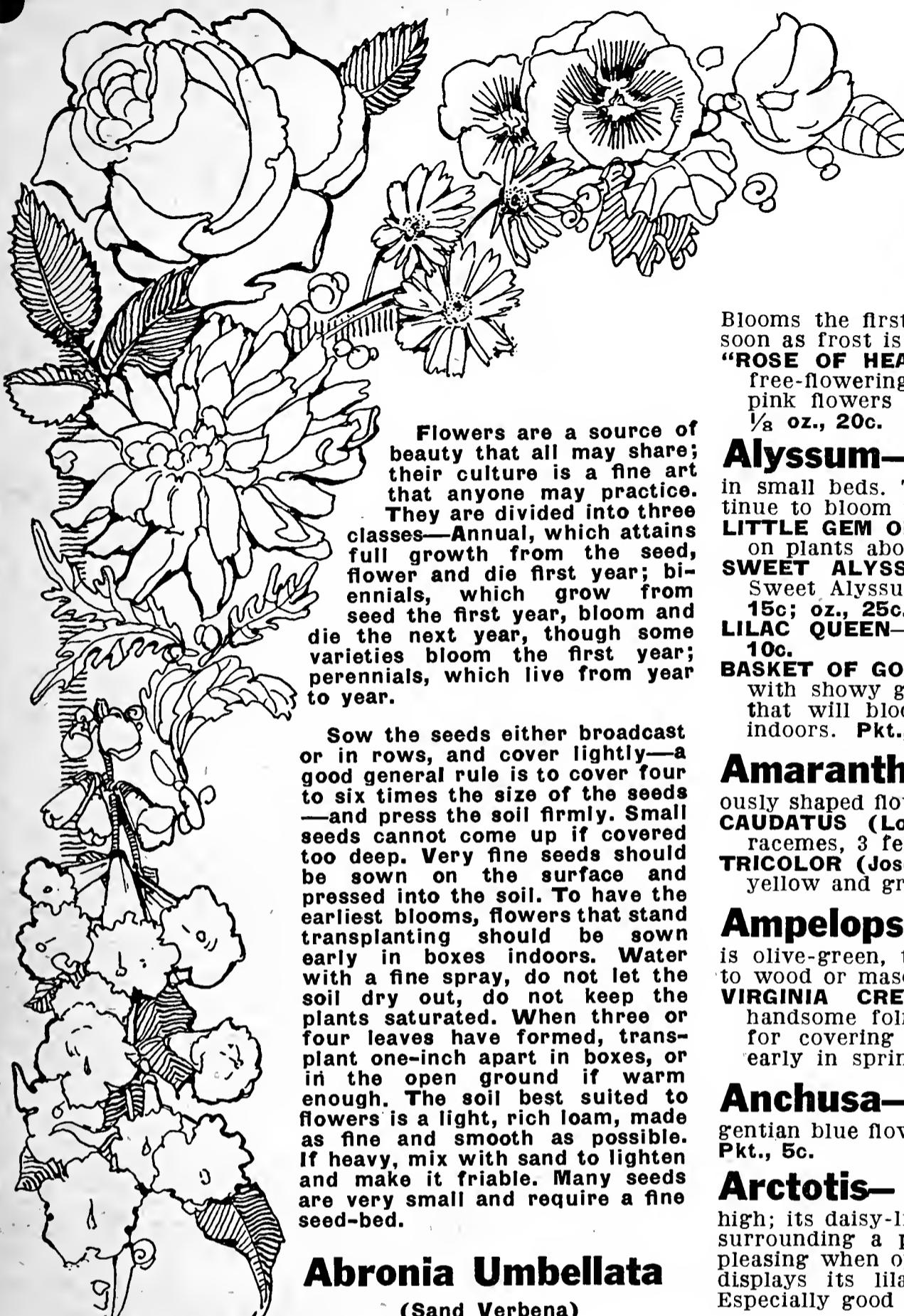
About May 1st we can supply Home Grown Sweet Spanish Onion Plants at \$2.00 per 1000, Postpaid.

### Garlic Sets

A BULBOUS root of the onion type, esteemed for flavoring soups and stews. The bulbs are composed of several parts, which should be divided and planted in rows 1 to 3 feet apart, 6 inches apart in rows and one inch deep. When the tops turn yellow, take up and dry in the shade. **Large bulbs: 1/4 lb., 15c; 1/2 lb., 25c; 1 lb., 40c; Postpaid.**



Onion Plants



Flowers are a source of beauty that all may share; their culture is a fine art that anyone may practice. They are divided into three classes—Annual, which attains full growth from the seed, flower and die first year; biennials, which grow from seed the first year, bloom and die the next year, though some varieties bloom the first year; perennials, which live from year to year.

Sow the seeds either broadcast or in rows, and cover lightly—a good general rule is to cover four to six times the size of the seeds—and press the soil firmly. Small seeds cannot come up if covered too deep. Very fine seeds should be sown on the surface and pressed into the soil. To have the earliest blooms, flowers that stand transplanting should be sown early in boxes indoors. Water with a fine spray, do not let the soil dry out, do not keep the plants saturated. When three or four leaves have formed, transplant one-inch apart in boxes, or in the open ground if warm enough. The soil best suited to flowers is a light, rich loam, made as fine and smooth as possible. If heavy, mix with sand to lighten and make it friable. Many seeds are very small and require a fine seed-bed.

### Abronia Umbellata

(Sand Verbena)

**ANNUAL**—A charming trailing succulent plant, with Verbena-like heads of fragrant flowers of bright rose with white center; it delights in a dry, poor soil and sunny situations on rockwork. Pkt., 5c;  $\frac{1}{2}$  oz., 25c.

**Acrolinium**—(Everlasting)—A half-hardy annual, producing double daisy-like flowers, white and rose colored. The blooms may be cut before full open and dried for Winter bouquets. Sow the seed in open ground early in Spring, thin the young plants to 4 inches apart. July till frost. 15 inches. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**African Golden Daisy**—("DIMORPHOTEECA.") Annual—An extremely showy plant, 12 to 15 inches high; yellow flowers; very profuse in flowering. Should be planted in a sunny location. A great favorite wherever it is planted. Pkt., 10c;  $\frac{1}{8}$  oz., 20c.

**Ageratum**—(Floss Flower)—Half-hardy annuals, largely used in beds and borders. They bloom during the whole Summer and provide an ample supply of cut flowers. The plants may also be lifted and will bloom indoors in Winter.

**BLUE PERFECTION**—Darkest flowers of all the blue Ageratum, compact growth, fine bedder. 9 in. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**MEXICANUM MIXED**—Annual—One of the best bedding plants, producing a mass of blue flowers from early summer until late fall. Sow in boxes in the house, or in the open ground in May, and transplant to eight inches apart. Pkt., 10c;  $\frac{1}{4}$  oz., 20c.

## A Descriptive List of Selected Flower Seeds

**Agrostemma**—("CORONARIA" "CROWN OF THE FIELD.") Perennial—An attractive plant with rich crimson flowers, silvery white foliage. Blooms the first season. Fine for cutting. Sow the seed as soon as frost is out of ground. Pkt., 5c;  $\frac{1}{8}$  oz., 20c.

**"ROSE OF HEAVENS," "COLELI ROSA."** Annual—A very free-flowering variety of Agrostemma, bearing pretty pink flowers in great profusion. Sow in May. Pkt., 5c;  $\frac{1}{8}$  oz., 20c.

**Alyssum**—A dainty little annual plant, useful for borders, for edging a path, or for massing in small beds. The flowers come in early spring and continue to bloom profusely all summer.

**LITTLE GEM OR CARPET OF SNOW**—Flowers pure white on plants about 4 inches high. Pkt., 10c;  $\frac{1}{4}$  oz., 20c.

**SWEET ALYSSUM (Maritimum)**—The old-time favorite Sweet Alyssum. Pure white. 9 inches. Pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c.

**LILAC QUEEN**—Deep lavender-lilac blooms. Dwarf. Pkt., 10c.

**BASKET OF GOLD (Saxatile Compactum)**—Silvery foliage, with showy golden yellow flowering in May. A perennial that will bloom the first season if seed is sown early indoors. Pkt., 10c;  $\frac{1}{8}$  oz., 20c.

**Amaranthus**—Extremely showy, half-hardy annuals, producing long racemes of curiously shaped flowers, some have gaudy foliage. July to frost.

**CAUDATUS (Love-lies-bleeding)**—Long drooping, crimson racemes, 3 feet. Pkt., 5c;  $\frac{1}{8}$  oz., 15c.

**TRICOLOR (Joseph's Coat)**—Leaves brilliantly marked red, yellow and green. 2 feet. Pkt., 5c;  $\frac{1}{8}$  oz., 15c.

**Ampelopsis**—(Japan or Boston Ivy)—Veitchi—A hardy perennial climber. The foliage is olive-green, turning to scarlet in Autumn, self-clinging to wood or masonry. 40 ft. Pkt., 10c;  $\frac{1}{2}$  oz., 25c.

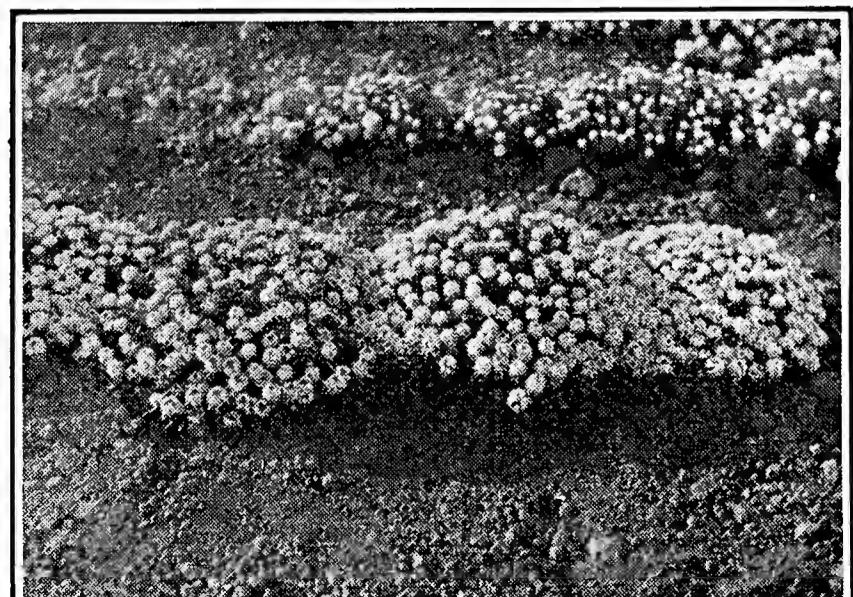
**VIRGINIA CREEPER**—Perennial—Luxuriant in growth, handsome foliage, which turns crimson in the fall. Fine for covering porches, fences, old trees or walls. Sow early in spring. Pkt., 10c.

**Anchusa**—**DROPMORE**—A strong growing hardy perennial; bears an abundance of lovely gentian blue flowers during the entire season. Height 4 feet. Pkt., 5c.

**Arctotis**—**BLUE-EYED AFRICAN DAISY.** Annual—It forms much branched bushes 2 to 3 feet high; its daisy-like flowers are pure white with a gold band surrounding a pale mauve or blue center. It is not only pleasing when open, but also when it closes at evening and displays its lilac tinted undersides. Foliage grey green. Especially good cut flower. Pkt., 5c;  $\frac{1}{8}$  oz., 20c.

**Asparagus Fern**—**PLUMOSUS NANUS (Lace Fern)**—3 feet. The bright green sprays surpass the Maiden-hair Fern in grace and delicacy of texture. The hard seeds need soaking and bottom heat to sprout them. Pkt., 10c.

**SPRENGERI (Emerald Feather)**—A very elegant foliage plant for hanging baskets, etc., the minute flowers, which are produced in pretty racemes, are of a rose color with orange anthers. Pkt., 10c.



Sweet Alyssum

## Asters

For cut flowers, there are no annuals that can compete with Asters. They are easy to raise, bloom throughout a long season, and are very satisfactory. The numerous types and colors and the possibilities, with a little extra care, of obtaining the most wonderful blooms, make the Aster the most interesting family of our annual flowers.

**EARLY AMERICAN BEAUTY ASTERS**—A very popular new type of unusual vigor commencing to bloom as the last of the other sorts are going out of bloom, and indispensable for those who want to cut flowers until the snow flies. The flowers are globe-shaped with long, wide, incurved petals. The plants grow to immense height, making long, strong, clean stems that hold the flowers up from the ground during the late fall rains.

Carmine Rose	Purple
Crimson	Sept. Beauty, flesh pink
Lavender	White Beauty
Peach Blossom	Finest Mixed

Each of the above, Pkt., 10c;  $\frac{1}{8}$  oz., 40c;  $\frac{1}{4}$  oz., 75c; oz., \$2.00.

**ROYAL BRANCHING**—The most beautiful of the early asters. Plants are of branching habit, with immense globe-shaped flowers, broad petals curved inward and long, strong stems. Royal asters are of sturdy, vigorous growth, and bloom a long time.

Royal Rose	Purple
Shell Pink	White
Lavender	Mixed

10c each; 3 for 25c;  $\frac{1}{8}$  oz., 25c.

**GIANT COMET OR OSTRICH FEATHER**—An improved strain of comet aster, with large fluffy blossoms, like chrysanthemums, often 5 inches across. One of the best sorts for cutting, as the flowers remain in condition a long time. Medium early and free flowering.

Pink	Dark Blue
Lavender	Carmine
White	Mixed

Each of the above: Pkt., 10c;  $\frac{1}{4}$  oz., 40c; 1 oz., \$1.25.

**IMPROVED AMERICAN VICTORIA**—A magnificent aster, distinguished by an elegant and regular over-lapping of the petals. Each plant bears 20 to 30 very double flowers, 4 inches across, of many delicate and some gorgeous shades. 15 to 18 inches high.

**Lavender**—Flowers of a most beautiful shade of lavender.

**Clear White**.

**Daybreak**—Silvery petals suffused with pink.

**Salmon**—Light orange-salmon.

**Mixed**—All above colors in a properly blended mixture.

Each of the above, Pkt., 10c;  $\frac{1}{8}$  oz., 35c;  $\frac{1}{4}$  oz., 60c; oz., \$2.00.

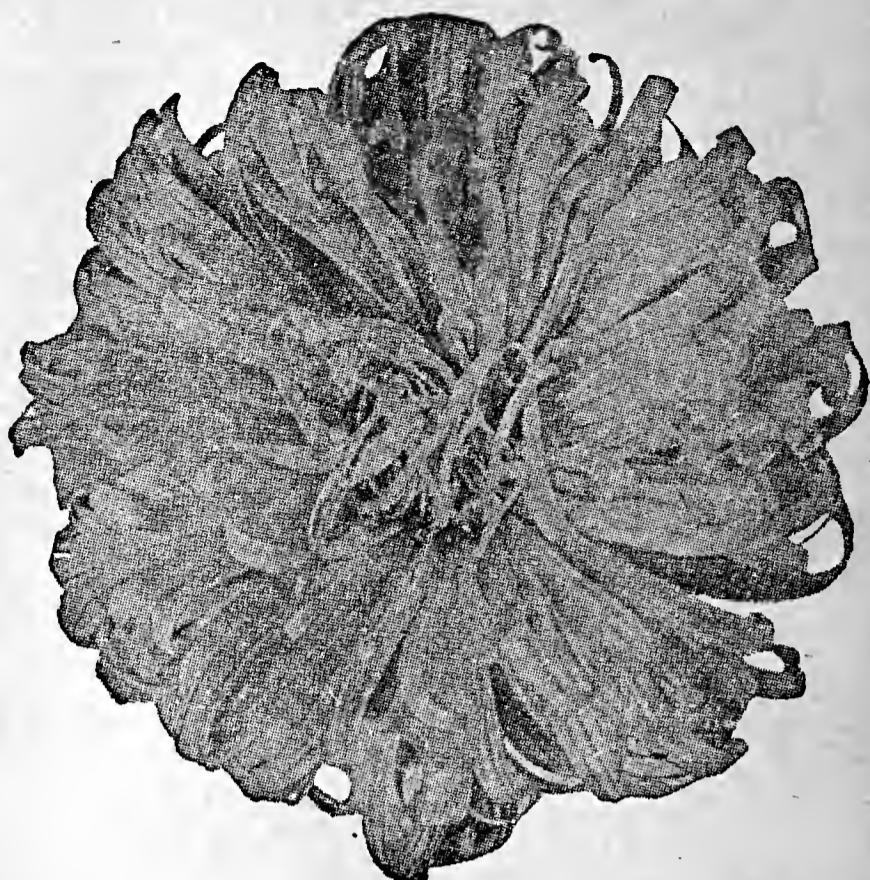
**QUEEN OF THE MARKET**—The best early aster, usually in full bloom two weeks before most other sorts begin to blossom. Of graceful spreading habit.

White	Blue
Pink	Scarlet
Mixed Colors	

Each of the above, Pkt., 5c;  $\frac{1}{4}$  oz., 25c; oz., 65c.



Queen of the Market Asters



Crego's Giant Aster

**CREGO'S GIANT ASTER**—The flowers are of immense size and borne on stems twelve inches or more in length. The petals are most attractively curled and twisted, resembling Chrysanthemums. The plants are of strong branching growth and usually attain a height of two and one-half feet. The delightful flowers are borne in abundance from August until the end of September.

Giant Shell Pink	Giant Purple
Giant Crimson	Giant Lavender
Giant White	

Each of the above: Pkt., 10c;  $\frac{1}{8}$  oz., 25c.

**CREGO'S GIANT MIXED**—A well-balanced mixture we make up out of separate colors. This is all good seed of high germination from the above colors. Pkt., 10c;  $\frac{1}{4}$  oz., 35c; oz., \$1.25.

**SUNSHINE ASTER**—**Improved Anemone-Flowered**.—A new and attractive type, especially fine for cutting. The plants are strong and vigorous, producing their flowers on long stout stems. The flowers have a cushion center of tubular petals with a star at the end; the outer petals are long and narrow and slightly quilled. **Mixed**: Pkt., 10c.

**FANCY YELLOW ASTER**—A very pretty aster, with flowers of good size, very full and double, of creamy yellow. This is the best yellow aster being grown, and looks like a chrysanthemum. Plants are of branching habit, producing many flowers. Pkt., 10c.

**HEART OF FRANCE**—The most popular aster ever introduced. Its remarkable color of purest ruby red deepens with age. Flowers are of good size and form and are borne on long, stiff stems. Plants are of strong branching habit. Pkt., 10c.

**BALL'S WHITE**—A large white aster that is quite popular with the florists. The flowers are so full double that the petals appear to be heaped on top of each other. The stems are stiff and non-lateral, and the season the same as Late Branching. Pkt., 10c.

**CRIMSON GIANT**—Of upright growth, with extra large, densely double flowers, on stems 15 to 18 inches long; in color a very rich blood crimson. A brilliant bed or border plant, and very desirable for cut flowers. Pkt., 10c.

### No. 12—SPECIAL COLLECTION

We will send one regular packet each of the following four favorite varieties for 35c:

Crimson Giant  
Heart of France

New Fancy Yellow  
Ball's White

**Bachelor's Button—** "CORN-FLOWER." Annual—Mixed colors. This old favorite is also known as "Blue Bottle," "Ragged Sailor," and "Bluet." They are so well known that a detailed description is unnecessary. Easily grown. Colors range from white to purple. Pkt., 5c; oz., 25c.

**DOUBLE BLUE.** Annual—A florist's strain; very effective when planted in masses, or for cutting. The large double deep blue flowers are very attractive. Pkt., 10c; oz., 50c.

**Balsam (Lady's Slipper) — DOUBLE CAMEL-LIA FLOWERED.**

These are the most perfect in form and largest yet developed in these old garden favorites. They are still among the most popular of garden annuals. Seed is best sown indoors in April and transplanted to the open in May. Height, 2 to 3 ft.

Light Pink. Pkt., 10c.  
Salmon Rose. Pkt., 10c.  
White Perfection. Pkt., 10c.  
Scarlet. Pkt., 10c.

Mixed Colors. Pkt., 5c.

Collection. 1 each of the above 4 colors, 30c.

Rose Flowered Mixed. Resembles a rose in form. Pkt., 10c; 3 pkts., 25c.

Double Spotted Mixed. Superbly blotched and spotted. Pkt., 10c; 3 pkts., 25c.

**APPLE**—(*Momordica Balsamina*). 10 feet. A very ornamental and quick-growing climber. It has a flower, but is grown mostly for the effect of the fruit which follows. This is yellow, looks not unlike an apple. When ripe it opens and shows the seeds and blood-red interior. Pkt., 5c.

**PEAR**—(*Momordica Charantia*). Useful for the edible pulpy ails surrounding the seed, also for the edible fruit itself, which is prepared, usually by boiling, before it is ripe. Vine grows 10 feet or more. Similar to above, only the fruit is pear-shaped. Pkt., 5c.

**Bartonia—Aurea**—A free-blooming and showy hardy annual, worthy of much more extensive cultivation; masses of large yellow flowers growing 12 inches high with silvery thistle-like foliage. Sow seeds outdoors in April or May. Pkt., 5c.

**Brachycome—SWAN RIVER DAISY**—Hardy Annual. Very pretty; grows about 8 inches high, and produces its blue or white flowers freely during the summer. Suitable for edging, borders or pots. Mixed colors. Pkt., 10c; 1/8 oz., 25c.

**Browallia—AMETHYST FLOWER**—Annual. A favorite bedding plant covered with rich, intense blue-winged flowers during the summer and autumn; free growers, and will bloom freely in the house if lifted in the autumn and cut back. Pkt., 10c; 1/8 oz., 25c.

**Cacalia (Tassel Flower) — FLORA'S PAINT BRUSH**—A half hardy annual, of easy culture, with tassel-shaped flowers; blooms from July to September; fine for borders. Mixed colors. Pkt., 5c; 1/4 oz., 25c.

**Calendula (Pot Marigold) —** One of the best and showiest free-flowering hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders, particularly bright in late fall, continuing in bloom from early summer until killed by frost; valuable also for pot culture, blooming freely in winter and early spring. Mixed colors. Pkt., 5c; 1/2 oz., 15c; oz., 25c.

**ORANGE KING**—Very large double flowers of rich deep golden orange color. Very attractive in beds or borders; also fine for cutting. Pkt., 10c; 1/4 oz., 15c; oz., 50c.

**LEMON QUEEN**—Very large double flowers of sulphur yellow. Pkt., 10c; 1/4 oz., 15c; oz., 50c.

**RADIO**—A new introduction from Europe. It is entirely different from the ordinary Calendula in that the petals are quilled, curled and twisted and we are certain that with the present demand for curled and twisted petalled flowers it will prove a valuable type for the average garden lover. The flowers are of good size and bright orange in color. Pkt., 10c.

**Canary Bird Vine**—A dainty vine with beautiful cut leaves and pretty, delicate flowers of a clear canary-yellow. Grows from 15 to 20 feet and succeeds well in the shade. Pkt., 5c; 1/4 oz., 15c.

**Annual Calliopsis—**

**TINCTORIA**—Beautiful large, bright golden yellow flowers, varied with rich brown. Excellent for cutting and decoration. Height, 2 feet. Pkt., 5c; 1/4 oz., 15c.

**PERENNIAL CALLIOPSIS OR COREOPSIS**

**LANCEOLATA GRANDIFLORA**

—This is one of the finest of hardy plants, with large, showy, bright yellow flowers, produced in the greatest abundance from June till frost. Easily grown from seed, flowering the first year, if sown early. Pkt., 10c; 1/4 oz., 25c.



Calliopsis

**Canterbury Bells—CAMPANULA**—Beautiful hardy biennials bearing a profusion of bell-shaped flowers of exquisite colors. Does best in a rich, light soil. Height, 2 1/2 feet. Single mixed colors. Pkt., 10c; 1/8 oz., 20c.

**CAMPANULA. Double**—The finest assortment of colors are found in this mixture, and the pretty cup and saucer form of the bloom is very popular. Pkt., 10c; 1/8 oz., 40c.

**Canna—INDIAN SHOT**—Stately, ornamental plants, producing large, varied and brilliant flowers. Soak for 36 hours and plant in pots or hot-beds in January, transplanting outside in May. They may be grown singly, massed in beds or as a background for smaller plants. Pkt., 10c; 1/2 oz., 35c.

**CANNA ROOTS**—See Bulbs, page 42.

**Candytuft—**

Indispensable for cutting; for beds, masses and borders, being fairly covered with blooms throughout the summer. Height 1 foot.

**Dwarf White**—

Fine for cutting and bedding. Pkt., 10c; 1/2 oz., 20c.

**Dwarf Pink**—Pkt., 10c; 1/2 oz., 20c.

**Dwarf Lilac**—Pkt., 10c; 1/2 oz., 20c.

**All Colors Mixed**—

Pkt., 5c; 1/2 oz., 15c; oz., 25c.

**GIANT EMPRESS HYACINTH FLOWERED**—

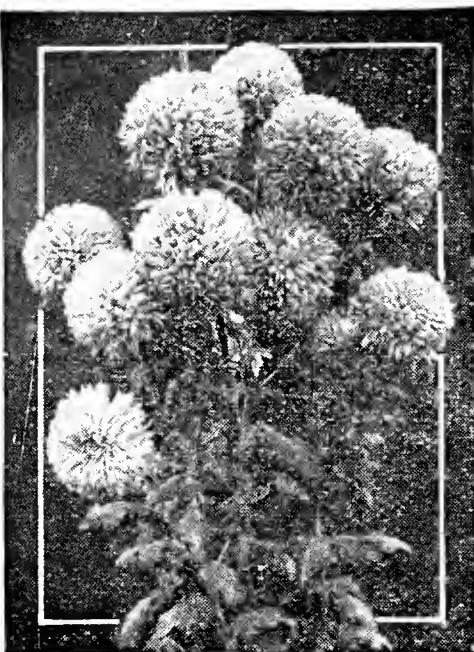
Makes fine cut flowers, and does exceedingly well in beds and borders; each plant bears several large flower spikes. Height 18 inches. Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c.



Candytuft

**Cardinal Climber**—There is no annual climber that for beauty, brilliance and rapidity of growth can compare with Cardinal Climber. Grows 30 feet or more, has beautiful fernlike foliage; literally covered from midsummer till frost with round, fiery, cardinal red flowers, 1 1/2 inches in diameter, and borne in clusters of 5 to 7 each. Plant in a warm, sunny place; file or cut a notch in each seed to insure germination. Pkt., 10c; 1/4 oz., 25c.

**Castor Oil Bean (Ricinus) — ZANZIBARI-ENSIS**—For producing tropical effects about the house and garden, this quick growing annual is unsurpassed. The big, heavy, star-shaped foliage is luxuriantly produced. Brilliant colored fruits. 5 to 8 feet. Pkt., 5c; oz., 20c.



Chrysanthemum

## Chrysanthemum

### ANNUAL VARIETIES —

Showy and effective garden favorites, largely grown for cut flowers. They are quite hardy and quite distinct from the perennial varieties.

### CORONARIUM —

Double Mixed. Annual. Very free flowering; of compact growth, 18 inches in height. The flowers are quite double, shading from white to orange. Sow early in May. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

### PERENNIAL VARIETIES

#### PARIS DAISY OR MAR-

**GUERITE** — White. An old and popular favorite, well known in old-fashioned gardens. Is used for baskets or porch boxes, where its

starlike blooms are much admired; grows in almost any soil. Sow as early as weather will permit. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**Carnations** — Great favorites and becoming more and more popular every year because of their delicious fragrance and richness of colors. Sow the seed in February or early March for nice plants to set in the garden when all danger of frost is past. They are best treated as annuals although they are half-hardy perennials.

**MARGUERITE** — Blooms in four months. Fine for bedding or pots. Dwarf, flowers very profusely; blooms double. All colors. Pkt., 10c;  $\frac{1}{4}$  oz., 35c.

**CHABAUD'S PERPETUAL** — Blooms in five months, and continues in greatest profusion indefinitely. Early and hardy. Many colors mixed. Pkt., 15c;  $\frac{1}{8}$  oz., 30c.

**Cineraria** — (**Dusty Miller**) **CANDIDISSIMA** — Half Hardy perennial. Fine for ribbon beds, bedding and margins. Two feet, but can be cut back and kept down by the shears. Sow when all danger of frost is over. Perhaps it would be better treated as an annual. Pkt., 10c;  $\frac{1}{2}$  oz., 25c.

**Clarkia** — There are few plants of a more pretty and graceful character than Clarkia. The long graceful stems are completely covered with beautiful double flowers in delicate, but very brilliant shades. They are very easily raised from seed and will do well in most any soil and in sun or shade. The plants are about 2 feet high. Mixed colors. Pkt., 5c;  $\frac{1}{2}$  oz., 25c.

**Clematis Paniculata** — Splendid hardy perennial climber growing 12 to 15 feet and covered with a dense mass of pure white star-like fragrant flowers that bloom for several weeks. A fine climber for porches, etc., and very easily grown. Lasts for years and is never troubled by insects. Pkt., 10c;  $\frac{1}{4}$  oz., 30c.

**Climbing Annuals—Mixed** — A splendid mixture of pretty flowering climbing annuals, just the thing for covering old stumps, fences, arbors, etc. Pkt., 5c; oz., 25c.

**Cobea** — **SCANDENS** — Annual Climber. This splendid climber is of rapid growth, with fine foliage and large, blue, bell-shaped flowers. Sow the seed in May in a warm, sunny position. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**Cockscomb** — **CELOSIA (Annual)** — Free blooming plants, which prefer a light, loamy soil, not too rich. Seed can be sown in the house and planted out in May, or sow the seed in the open in May.

**CRISTATA** — Tall Annual. A very ornamental plant, with curious flowers resembling a cock's comb. Very suitable for the flower border. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**DWARF** — Mixed colors. A dwarf variety of the above. The flowers are very rich in form and color. Pkt., 10c;  $\frac{1}{4}$  oz., 30c.

**Coleus** — **MAMMOTH RAINBOW MIXTURE** — Height 2 feet. The handsomest foliage plant obtained from seed. The leaves often measure 10 inches in length and 8 inches in width, heart-shaped and handsomely crimped, toothed and frilled; their color combinations are remarkably rich. Pkt., 10c;  $\frac{1}{4}$  oz., 45c.



Early Flowering Cosmos

**Columbine** — **AQUILEGIA COERULEA** — No hardy plant grown from seed is more easily handled than the Columbine. Sow the seed in the early spring and it will in most cases bloom the same season, or sow in August or September, and they will come up early in the spring and make strong plants, which will bloom during spring and early summer. All colors mixed. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**ROCKY MOUNTAIN** — This is Colorado's emblematic flower. Its beautiful blue and white flowers are so well known that a detailed description is unnecessary. Pkt., 10c;  $\frac{1}{8}$  oz., 35c.

**DOUBLE** — All colors mixed. Pkt., 10c;  $\frac{1}{8}$  oz., 25c.

**Cosmos** — Beautiful annuals, which grow to a height of four to six feet, with feathery green foliage. Flowers are large and handsome, white, crimson, and rose, with deep yellow centers, and last a long time when cut. Seed may be started indoors, in boxes, and plants set out in May or sown in the open late in May. The Early Cosmos flower from August through October.

**EXTRA EARLY MAMMOTH WHITE**. Pkt., 5c; oz., 40c.

**EXTRA EARLY MAMMOTH PINK**. Pkt., 5c; oz., 40c.

**EXTRA EARLY MAMMOTH CRIMSON**. Pkt., 5c; oz., 40c.

**EXTRA EARLY MAMMOTH FLOWERING MIXED**. Pkt., 5c; oz., 25c.

**KLONDYKE YELLOW** — Gorgeous orange yellow flowers, 2  $\frac{1}{2}$  to 3 inches across, are borne on long stems. Grow in pots till the plants are well grown. Pkt., 10c;  $\frac{1}{2}$  oz., 25c.

**Early Double Crested Cosmos** — The latest development in this popular flower. The plants are similar to other cosmos, but the blooms are distinct in having double crowns, giving them a very dainty and exquisite appearance. The colors are a delightful shade of shell pink, pure white and crimson. A large percentage come true from seed both as to doubleness and color. Aside from their novelty and beauty, the blooms are lasting both on the plant and as cut flowers.

**SHELL PINK**. Pkt., 10c;  $\frac{1}{4}$  oz., 50c.

**WHITE QUEEN**. Pkt., 10c;  $\frac{1}{4}$  oz., 50c.

**CRIMSON KING**. Pkt., 10c;  $\frac{1}{4}$  oz., 50c.

**MIXED COLORS**. Pkt., 10c;  $\frac{1}{4}$  oz., 45c.

**Cyclamen** — Very handsome as well as unique shaped plant and flower for a house or greenhouse which bloom in winter and early spring. It takes fifteen months to bloom from seed and the plants require loose soil, rich in leaf mold. Flowers pink, crimson and white. 6 inches. Mixed. Pkt., 15c.

**Cypress Vine** — The foliage of this annual climber is extremely delicate and much resembles the Maidenhair Fern. The seed should be soaked in warm water before sowing. Will grow 15 feet or more in a season. Mixed. Pkt., 5c;  $\frac{1}{2}$  oz., 20c.

**Dahlias**—Growing Dahlias from seed is extremely fascinating; one gets new and interesting forms. Sow seed in February to get plants large enough to set out when danger of frost is past. These seedlings will bloom from July to frost. Double and Single Mixed. Pkt., 10c;  $\frac{1}{4}$  oz., 35c.

**Daisy—BELLIS (Double English Daisy)**—(Hardy perennial). Will stand the winter if given the protection of a little litter. In bloom from early spring until well in the summer. Easily raised from seed, which may be sown at any time from spring till August. For best results, new plants should be raised from seed each year. They are indispensable for cool shady places.

**MONSTROSA ROSE**—Perfectly double flowers of enormous size. Pkt., 10c;  $\frac{1}{8}$  oz., 50c.

**GIANT LONGFELLOW**—Large, double pink flowers. Pkt., 10c;  $\frac{1}{8}$  oz., 50c.

**GIANT SNOWBALL**—Large, perfectly double; white. Pkt., 10c;  $\frac{1}{8}$  oz., 50c.

**DOUBLE GIANT MIXED**—Finest mixture. Pkt., 10c;  $\frac{1}{8}$  oz., 40c.



Shasta Daisy

**The Shasta Daisy**—Most attractive in the perennial border. The flowers averaging 4 inches in diameter, are borne on long, stiff stems and are especially adapted for cutting. It begins blooming in July and continues for several months. The petals or rays are pure glistening white, with small golden yellow centers. If sown early it will flower the same season. Height 2  $\frac{1}{2}$  feet. Pkt., 10c;  $\frac{1}{4}$  oz., 75c; oz., \$2.50.

**Didiscus** **BLUE LACE FLOWER**—Very charming outdoor or greenhouse annual. The plant grows about 18 inches high and produces attractive, umbel-shaped flowers of lace-like appearance; the color is a clear coerulea or heavenly blue. Excellent for cutting. Pkt., 10c.

**Eschscholtzia—CALIFORNIA POPPY**—A bright free-flowering plant of low spreading growth with finely cut silvery foliage. The poppy-like flowers are produced from early spring until frost. Sow the seed where the plants are to remain. The California Poppy makes an interesting plant for the foreground of the border, bringing a touch of gold and gray from the foothills of the West. Pkt., 5c; oz., 25c.

**GOLDEN WEST**—Flowers bright yellow and orange, penciled and blotched. Pkt., 5c; oz., 25c.

**THE GEISHA**—Orange-red outside, rich golden within. Pkt., 10c; oz., 50c.

**BUSH ESCHSCHOLTZIA, OR HUNNEMANNIA (Santa Barbara Poppy)**—Bears large cup-shaped yellow flowers, 3 inches across, on 12-inch stems; the petals are crinkled like crushed satin; will keep for two weeks. Sown early, they bloom for months. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

**Euphorbia Variegata—SNOW ON THE MOUNTAIN**—2 feet. Strong-growing foliage plant whose attraction lies in the white borders to the bright green leaves. Is most showy in poor soil. Used with tall growing plants as a light effect it is most useful. Its possibilities are great and it will well repay numerous experiments. Pkt., 5c.

**Everlasting Sweet Peas—LATHYRUS LATIFOLIUS**—A very decorative climbing vine of the Pea family, for growing on fences, trellis, etc., as floral screens and for cutting. Blooms all summer.

**PINK BEAUTY**—Pale pink variety. Pkt., 10c;  $\frac{1}{4}$  oz., 40c.

**RUBRA**—Bright rosy crimson. Pkt., 10c;  $\frac{1}{4}$  oz., 40c.

**WHITE PEARL**—Large-flowering white. Pkt., 10c;  $\frac{1}{4}$  oz., 50c.

**MIXED COLORS**—Pkt., 10c;  $\frac{1}{4}$  oz., 30c.

**Everlasting Flowers**—The class of flowers called "Everlastings" has been gaining a great deal of popularity during recent years. They are all "old-fashioned" flowers that were better known years ago than they are now. The flowers should be picked for drying before they are fully open.

As seed of most "Everlastings" is slow to germinate, it is well to sow quite shallow and carefully.

**AMMOBIUM—ALATUM GRANDIFLORUM**—Height 2  $\frac{1}{2}$  feet. This "Winged Everlasting" resembles the Immortelle; white flowers with green centers. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**GLOBE AMARANTH—GOMPHRENA**—Annual. "Everlasting." A first-rate plant for bedding; mixed colors; the flower can be dried and used as winter bouquets. Sow the seed in May. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**HELICHRYSUM (Straw Flower)**—Exceedingly effective everlastings; fine for borders. The flowers are large and the color bright; highly prized for Winter bouquets. Flowers intended for drying should be gathered when partially unfolded. Take off all foliage, tie in bunches and hang head downwards in some dark, dry place until cured. Give them plenty of room to develop, planting not closer than 12 inches apart; hardy annuals. 2  $\frac{1}{2}$  feet.

**Fireball**. Bright red. Pkt., 10c.

**Silverball**. Pkt., 10c.

**Goldenball**. Golden yellow. Pkt., 10c.

**Rose Queen**. Pkt., 10c.

**Salmon Queen**. Pkt., 10c.

**Violet Queen**. Pkt., 10c.

**Any of the above**.  $\frac{1}{4}$  oz., 30c.

**Collection**. One packet, each, 50c.

**Mixed**. All colors. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**RHODANTHE**—Charming little bell-shaped flowers borne in pretty sprays. Prefers a warm sheltered situation and rich soil. Mixed colors. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**XERANTHEMUM**—This is one of the oldest and prettiest of the "Everlasting" flowers. It is the one often called "Immortelle." It grows 1 foot high from seed sown in the open ground and bears an abundance of bright rose, purple, and white flowers. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**SPECIAL EVERLASTING MIXTURE**—For the benefit of those who want only a few of each of the numerous everlastings we have made this special Everlasting Mixture. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.



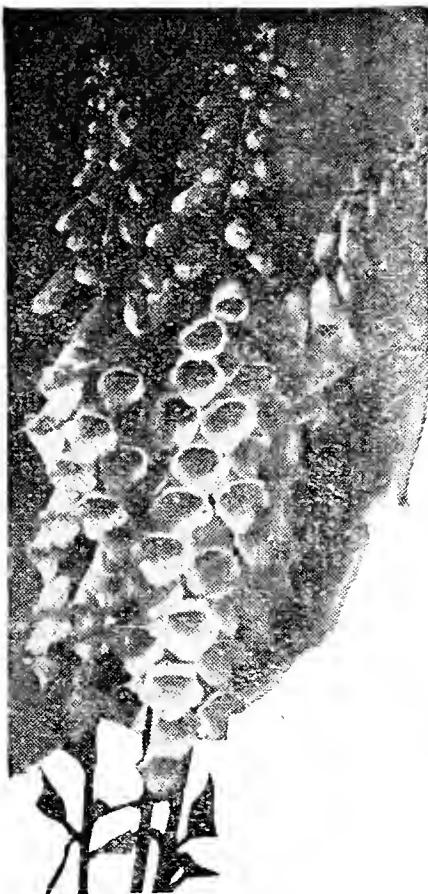
Forget-Me-Not

**Forget-Me-Not—MYOSOTIS**—Few spring flowers are more lovely than these half hardy perennials that bloom the first year from seed. Grow them in masses, in beds and borders, they are very effective.

**ALPESTRIS ROYAL BLUE**—Rich Indigo blue flowers. The most effective and finest dark blue kind, growing 9 in. high. Begin blooming in April. Pkt., 10c;  $\frac{1}{4}$  oz., 40c.

**ALPESTRIS ROSE**—Rose colored flowers on sturdy, 9-inch plants. Pkt., 10c;  $\frac{1}{4}$  oz., 40c.

**ALPESTRIS MIXED**—A mixture of blue, rose and white flowering kinds. Pkt., 10c;  $\frac{1}{4}$  oz., 35c.



Foxglove

**Foxglove**—Tall, stately perennials that do well on poor soil, in a half-shaded position. They are planted extensively among shrubbery, and on shady hillsides. Delicate, thimble shaped flowers of white, lavender and rose, with odd markings in the throat, are produced on tall, stiff spikes growing two to five feet tall. Pkt., 10c;  $\frac{1}{4}$  oz., 30c.

**GIANT SHIRLEY MIXED**—Four to 6 feet high with flower heads over  $2\frac{1}{2}$  feet long, crowded with large blossoms ranging in color from white and shell-pink to deepest rose. Many handsomely dotted with crimson, maroon, or chocolate. Pkt., 10c;  $\frac{1}{4}$  oz., 35c.

### Four O'clock (Marvel of Peru)

Blooms the first season from seed; the flowers, which are produced in clusters, open in the afternoon and wither the next morning. Generally planted in solid rows, to out-

line the garden plot or walks; its innumerable flowers and gorgeous diversity of colors furnishing a great deal of cheer at little expense. 2 feet. Our mixture contains a fine variety of colors.

**MIXED**—Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.00.

**DWARF MIXED**—Dwarf, compact, bushy plants with golden variegated foliage; the flowers of many brilliant colors. Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50.

**Gaillardia**—Blanket Flower. Annual Varieties—Splendid, showy plants, remarkable for brilliancy of their blooms, which are rich crimson and orange, and are borne continuously from early summer until frost; excellent for beds, borders or for cutting. They should be sown where they are to bloom early in May. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**PERENNIAL VARIETIES**—The hardy Gaillardia should be in every border as they thrive in any soil or position, are absolutely hardy and practically take care of themselves. Sow the seed early and they will begin blooming in July and continue until frost. Grow 2 ft. high and are fine for cutting.

**GRANDIFLORA MIXED**—Giant, gorgeously colored flowers marked with rings of crimson, orange and vermillion. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**Geranium**—**ZONALE**—Mixed colors. Perennial. A splendid strain of the best varieties. They are easily raised from seed, which should be sown in the house and transplanted in May or June to the open. Being tender perennials, they should be lifted in the fall, potted and taken into the house to bloom. Pkt., 10c.

**Geum**—**Hardy Perennial**—These hardy plants have become very popular for use in the Hardy Border and in the Rockery where their showy flowers make a brilliant display from May through October. To avoid wilting after cutting, put the stems in warm water.

**LADY STRATHEDE**—Rich golden yellow, loose petaled double flowers produced on thrifty plants in the greatest profusion all summer. Pkt., 10c.

**MRS. BRADSHAW**—Large double orange-scarlet flowers on plants 2 ft. high. Pkt., 10c.

**Godetia**—Dwarf, hardy annuals of easy culture. They do best in a sunny position in rather poor soil. Sow the seed outdoors, in May, thinning out well in the rows, or start in hotbeds and transplant. Flowers are large, trumpet shaped of satiny texture and rich coloring. All shades of rose. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**Gourds**—**ORNAMENTAL**—Tender annual climbers of rapid growth, vines often growing 20 to 30 feet long. They have luxuriant foliage and are immune from insects. Fruits curiously shaped in various colors and peculiarly marked. Forms may be wonderfully varied by tying strings around the young fruit or by enclosing same in a carved mold while growing. Many of these fruits keep for years, being very hard shelled. Finest mixed. Pkt., 5c; oz., 20c.

**Gypsophila (Baby's Breath)**—Delicate, feathery panicles of minute flowers. Used extensively as cut flowers, in combination with other varieties, and for winter bouquets. Easily grown from seed, in any good garden soil.

**PANICULATA**. Perennial—This variety grows two feet high, with graceful misty sprays of white flowers. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**ANNUAL WHITE**—Large flowering annual. Pkt., 5c; oz., 30c.

**ANNUAL PINK**—The prettiest for cutting. Pkt., 5c; oz., 35c.

**Heliotrope**—One of the old time favorite annuals, beloved for its fragrance as well as the delicacy of its violet and bluish flowers.  $1\frac{1}{2}$  feet tall. **LEMOINE GIANT**—Mixed colors. Pkt., 10c;  $\frac{1}{4}$  oz., 35c. **VALERIANA—Rubra Mixed**—A much prized showy hardy perennial. It bears dense clusters of small heliotrope scented flowers of red or white. Blooms continuously and is easily raised from seed. Pkt., 10c.

**Helianthus—SUNFLOWER**—Annual. Three to 6 feet. June till frost. Of easiest culture. Suitable for backgrounds, screens, and to plant among shrubbery. In bloom from June until frost.

**CALIFORNICA**—Rich golden yellow flowers, perfectly double, resembling a chrysanthemum. A very handsome flower. Pkt., 10c;  $\frac{1}{2}$  oz., 20c.

**NEW RED**—Blooms the first season from seed. Is a very handsome flower, well formed, with dark center, the petals are bright yellow at the tips, shaded towards the center with rich chestnut red, resembling a large Calliopsis. Pkt., 10c; oz., 50c.

**MAMMOTH RUSSIAN**—Grown for poultry. Oz., 10c.

**Hollyhock**—A superb strain of the finest types of double hollyhocks extant in clean, decided colors. A sowing made in early spring will flower, with good cultivation, during the ensuing summer and autumn. There is nothing more attractive as a back row plant than hollyhocks. We offer the very best strain procurable, which is, without doubt, Chater's.

**DOUBLE, Deep Rose**—Pkt., 10c.

**Maroon**—Pkt., 10c.

**Scarlet**—Pkt., 10c.

**White**—Pkt., 10c.

**Newport Pink**—Pkt., 10c.

**Salmon Rose**—Pkt., 10c.

**Sulphur Yellow**—Pkt., 10c.

**DOUBLE MIXED**—Pkt., 10c;  $\frac{1}{2}$  oz., 25c.

**Honeysuckle**—**HEDYSARUM**—“French” Hardy Biennial—A very handsome, free flowering plant bearing fragrant flowers. Well adapted to the border of rock-work; yellow. Sow the seed in a warm border in rich soil and transplant to place where they are to remain. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

### Humulus (Japanese Hop)

**Japonicus Variegatus (Annual)**—The leaves are strikingly variegated. A strong grower—20 to 30 feet in a few weeks' time; not injured by heat or insects. Sow early in May. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

**Hyacinth Bean**—**DOLICHOS**—Mixed colors. An extra rapid-growing climber that makes a dense and attractive screen of foliage in a short time from seed sown outdoors. The flowers are long spikes of wistaria-like flowers. The vines grow from 8 to 10 feet high and bloom profusely. Pkt., 5c; oz., 20c.

### Ice Plant

**MESEMBRYANTHEMUM CRYSTALLINUM (Annual)**—Foliage very ornamental, being covered with ice-like globules and prized for garnishing; a valuable plant for dry, sunny situations on banks, rockwork, old walls and ruins, etc., also for sunny borders. Pkt., 10c;  $\frac{1}{4}$  oz., 20c.

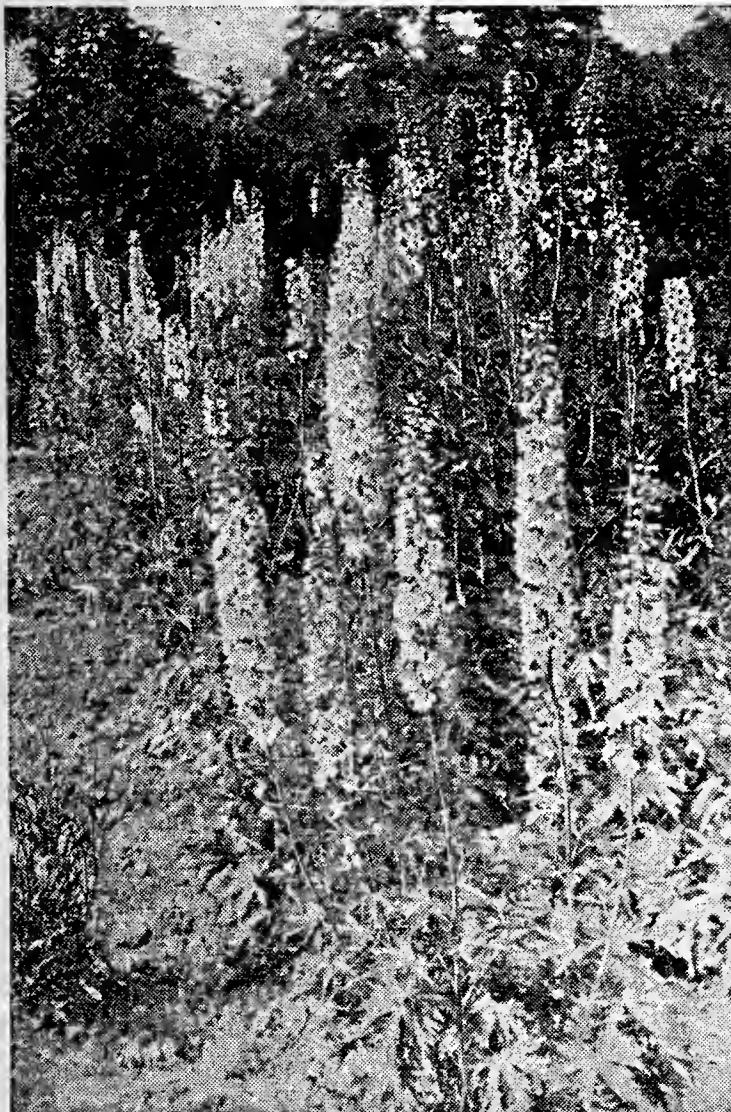


### Job's Tears

**(Coix lachryma)**—Curious ornamental grass with broad, corn-like leaves and lustrous slate colored seeds used for beads. Valuable for winter bouquets with everlasting flowers. Plant outdoors early in spring in hills three feet apart, four or five seeds in a hill, and cover half an inch deep. Hardy annual; three feet high. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c.

Hollyhocks

**Lantana**— **HALF HARDY PERENNIAL**—Shrubby plant, 1 to 3 feet high, bearing verbena-like pink, yellow, orange or white flowers having an agreeable aromatic odor. Seed, at times, is very slow to germinate. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.



Larkspur

**Larkspur**— (*Annual Delphinium*). For bedding, for growing among shrubbery and as cut flowers, larkspurs are strikingly beautiful. Early spring plantings will give blooms from July till frost, but several plantings are recommended. Transplant 12 inches apart. Height, 2  $\frac{1}{2}$  feet.

**DOUBLE DARK BLUE**—Pkt., 10c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 40c.

**DOUBLE PINK**—Pkt., 10c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 40c.

**DOUBLE MIXED COLORS**—Pkt., 5c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 30c.

**GIANT HYACINTH FLOWERED**—The plants grow 3 feet high with long spikes of giant double flowers. Earliest flowering. Try these broadcasted with Shirley Poppies and Calliopsis. Mixed Colors. Pkt., 5c;  $\frac{1}{4}$  oz., 25c.

#### Perennial Larkspur

One of our most showy and useful hardy perennial plants, possessing almost every requisite for the adornment of the garden, producing splendid spikes of flowers in profusion throughout the summer.

To prolong the season of bloom, cut the old flower stems off after they have faded, and new shoots will flower later in the season.

**BELLADONNA**—One of the most free and continuous blooming varieties. Immense spikes of lovely pale blue. Four feet. Pkt., 20c;  $\frac{1}{8}$  oz., 75c.

**BELLAMOSUM**—A lovely counterpart to Belladonna. Rich deep blue flowers. Pkt., 20c;  $\frac{1}{8}$  oz., 60c.

**GOLD MEDAL HYBRIDS**—A wonderful improved type of *Delphinium*. The colors range from palest lavender, through every shade of blue to pansy-violet, several shades being blended in some of the varieties. Pkt., 15c;  $\frac{1}{8}$  oz., 50c.

**“Lily of the Valley”**— **CONVALLARIA**— This beautiful, fragrant and modest little white flower is always a favorite. They can easily be grown from seed, and when large enough, transplant to a richly prepared bed of light, loamy soil. It will need little protection during the winter. Sow the seed in the house early in March or April. Pkt., 15c.

**Linum (Flax)**— **SCARLET FLAX**—A very pretty hardy annual bedding plant, 1 foot high, covered with bright red flowers. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**PERENNIAL BLUE**—A hardy perennial; bears graceful bright blue flowers from June till frost. Height, 18 inches. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**Lobelia**— **CRYSTAL PALACE COMPACTA**— Beautiful deep blue, fine for bedding, 4 inches. Blooming quickly from seed and lasting all summer, these attractive little bushy plants are exceedingly useful as edgings or for rockeries. Pkt., 10c;  $\frac{1}{8}$  oz., 40c.

**Lupinus**— **ANNUAL MIXED**—About 2 feet high, with upright racemes of variously colored pea-shaped flowers. Valuable for mixed flower beds and borders. Pkt., 5c;  $\frac{1}{2}$  oz., 25c.

**PERENNIAL LUPINE**—Hardy perennial. Height, 3 feet. A handsome hardy plant worthy of a place in every garden, the tall, striking flower spikes bearing innumerable pea-shaped blooms in color, ranging from white to blue and rose. The foliage is also very ornamental. Does not flower until the second year. Pkt., 10c;  $\frac{1}{2}$  oz., 35c.

**Lychnis**— **CHALCEDONICA**—A most desirable plant of easiest culture, bearing large heads of vivid scarlet-colored flowers. Exceptionally fine for massing in large beds. Pkt., 10c;  $\frac{1}{8}$  oz., 25c.

**Marigold**— **No annual exceeds the Marigold in wealth of bloom.** From mid-summer on the big orange or yellow blooms are produced in great abundance on long, stiff stems. They furnish a wealth of color, keeping the garden bright until late in the fall. They succeed best in a sunny situation.

#### Double African Marigolds

**ORANGE BALL**—Large, double quilled flowers of a rich, deep orange color; most popular of all the Marigolds. Grows 3 feet high. Pkt., 5c;  $\frac{1}{4}$  oz., 35c.

**LEMON BALL**—Like Orange Ball except in color, which is a soft lemon yellow. Pkt., 5c;  $\frac{1}{4}$  oz., 35c.

**DOUBLE AFRICAN MIXED**—Orange and yellow mixed. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

#### French Marigolds

**TALL FRENCH**—Very quick growing. The flowers of bright striped colors, are produced by the hundreds and continue so until frost; 2 to 2  $\frac{1}{2}$  feet. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**DWARF FRENCH**—Similar in every respect to the tall variety, only that they are smaller; fine border plant; 1  $\frac{1}{2}$  to 2 feet. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**Matricaria**— **CAPENSIS**— Double White Feverfew. Dwarf, compact plants with chrysanthemum-like foliage and double white flowers. Fine for bedding. Annual. 1  $\frac{1}{4}$  feet. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**Maurandia**— Very fast growing, half-hardy perennial climber which, if treated like tender annuals, bloom the first year. Fine for trellises and porches. Ten feet. Colors mixed—purple, blue, white and rose. Pkt., 10c;  $\frac{1}{8}$  oz., 25c.

**Mexican Burning Bush**— **SUMMER CYPRESS**—A rapid growing, highly ornamental annual forming perfect pyramids 2 to 2  $\frac{1}{2}$  feet high, covered with feathery green branches, which in the fall turn to a deep red. Makes a fine summer hedge. Thin out to 18 inches apart. Pkt., 5c; oz., 20c.

**Mimosa Pudica**— **SENSITIVE PLANT**— Annual. These are curious and interesting plants, with small pink flowers; the leaves and foot stalks droop and close at the slightest touch, or in cloudy, damp weather; 1  $\frac{1}{2}$  feet. Sow the seed in early part of May. Pkt., 10c.

**Moon Flower**— **IPOMEA MEXICANA ALBA**—Annual. These beautiful white climbers grow very rapidly. The luxuriant foliage makes a splendid shade for porches. In Colorado and northern states it is advisable to plant the seed in pots indoors in March and transplant them out when the weather gets warm. Pkt., 10c;  $\frac{1}{2}$  oz., 30c.

**RUBRA COERULEA**—“Heavenly Blue.” This variety bears immense flowers of bright sky-blue. It is a beautiful vine. Pkt., 10c;  $\frac{1}{2}$  oz., 30c.



African Marigold

**Mignonette—**

The sweet yet delicate odor of the Mignonette has endeared itself to every true lover of flowers. Seed of this splendid annual sown early in the garden will give flowers all through the summer and fall.

**SWEET SCENTED, LARGE FLOWERING**

Flowers large, of a reddish tint; very hardy, fragrant and good variety for the open ground. Pkt., 5c;  $\frac{1}{2}$  oz., 15c.

**MACHET**—Plant dwarf and vigorous, of good habit, producing large spikes of sweet-scented flowers of yellow color. Fine for cutting. Pkt., 5c;  $\frac{1}{2}$  oz., 20c.

**Morning Glory—**

**MAJOR (Tall)**—An easily grown annual that quickly covers the trellis or other support. Will bloom all summer. Pkt., 5c; oz., 20c.

**MINOR (Dwarf)**—Used in beds and mixed borders, as the plants are rarely more than 1 foot high. They bloom freely and in many rich colors. Pkt., 5c; oz., 25c.

**JAPANESE IMPERIAL MIXED**—Flowers of large size, and great variety of colors. Pkt., 10c; oz., 35c.

**GIANT JAPANESE**—Large size flowers 3 to 4 inches across with a great range of colors. Snowy-white to silvery-gray, daintiest blue to the rich velvety shades of purple, terra-cotta and coffee-color. Some striped and spotted.

Pkt., 10c; oz., 40c.

**HEAVENLY BLUE**—Flowers are extra large in size, a lovely light blue, outlined with a narrow band of silvery white.

Pkt., 10c;  $\frac{1}{2}$  oz., 25c.

**BRAZILIAN (Setosa)**—A magnificent quick summer climber of luxuriant and vigorous growth with leaves 9 inches across making a dense shade. Flowers are a beautiful rose color borne in clusters. Pkt., 10c; oz., 35c.



Mignonette



Mourning Bride

Some of the hardy perennials, color soft blue. Fine cut flower, lasting a long time in water. Three feet. Pkt., 10c;  $\frac{1}{2}$  oz., 20c.

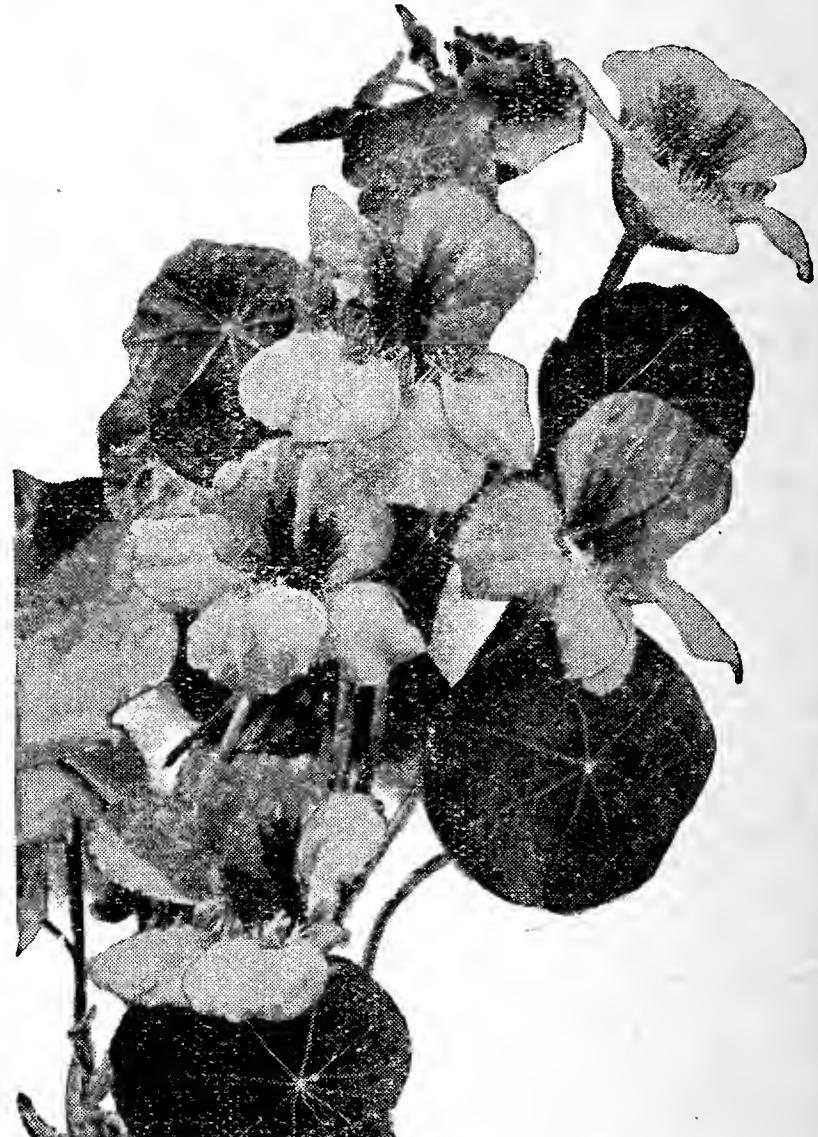
**Nemophila—ANNUAL**—A charming little plant, thriving well in moist, sandy places, but quite at home in the open garden. The pretty, bell-shaped flowers, in shades of blue and variously marked, are freely produced all summer. Sow in May. Pkt., 5c;  $\frac{1}{2}$  oz., 20c.

**Nicotiana (Tobacco) — AFFINIA (Tuberose Flowered Tobacco) —**

Hardy annual. Sweet scented, pure white, tubular flowers, blooming continually. Height, 2 to 3 ft. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

**SANDERAE**—A splendid type in a great variety of colors.

Pkt., 5c;  $\frac{1}{4}$  oz., 25c.

**Nasturtium—**

Next to the Sweet Pea no flower enjoys more popularity than the Nasturtium. It blooms from the moment the plant is strong enough until frost. The taller sorts may be used for climbing over stonework, or on trellises, or to shade porches and verandas. The dwarfs are excellent for bedding and edging. Seeds can be sown in the garden in April, in a sunny, open position, and in June flowers are ready for cutting.

**PERFEGRO SELECTED MIXTURE**—We have put into these mixtures the cream of the standard and all the newest varieties of distinct merit. The colors vary from pearly white to almost black; every intermediate color is represented, giving the richest combination of colors ever offered in Nasturtiums.

**PERFEGRO DWARF MIXTURE**—Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00.

**PERFEGRO TALL MIXTURE**—Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00.

**QUEEN OF TOM THUMBS**—Each plant grows to a rounded bush, each leaf veined or marbled with silvery white; rich crimson flowers. Pkt., 10c; oz., 20c.

**GOLDEN GLEAM**—New double sweet scented nasturtium. The large golden yellow flowers average two and a half inches across. They are borne on erect stiff stems and stand well above the foliage; an arrangement which adds immeasurably to the showy appearance of the plant. An ordinary size bouquet will fill the room with fragrance. Pkt., 15c;  $\frac{1}{4}$  oz., 25c; oz., 75c.

**Nigella**—Interesting and easily grown annual. The foliage is fine and feathery and the showy flowers, mostly in shades of blue, are surrounded by a border resembling green lace. Fine for cutting. Twelve to 15 inches.

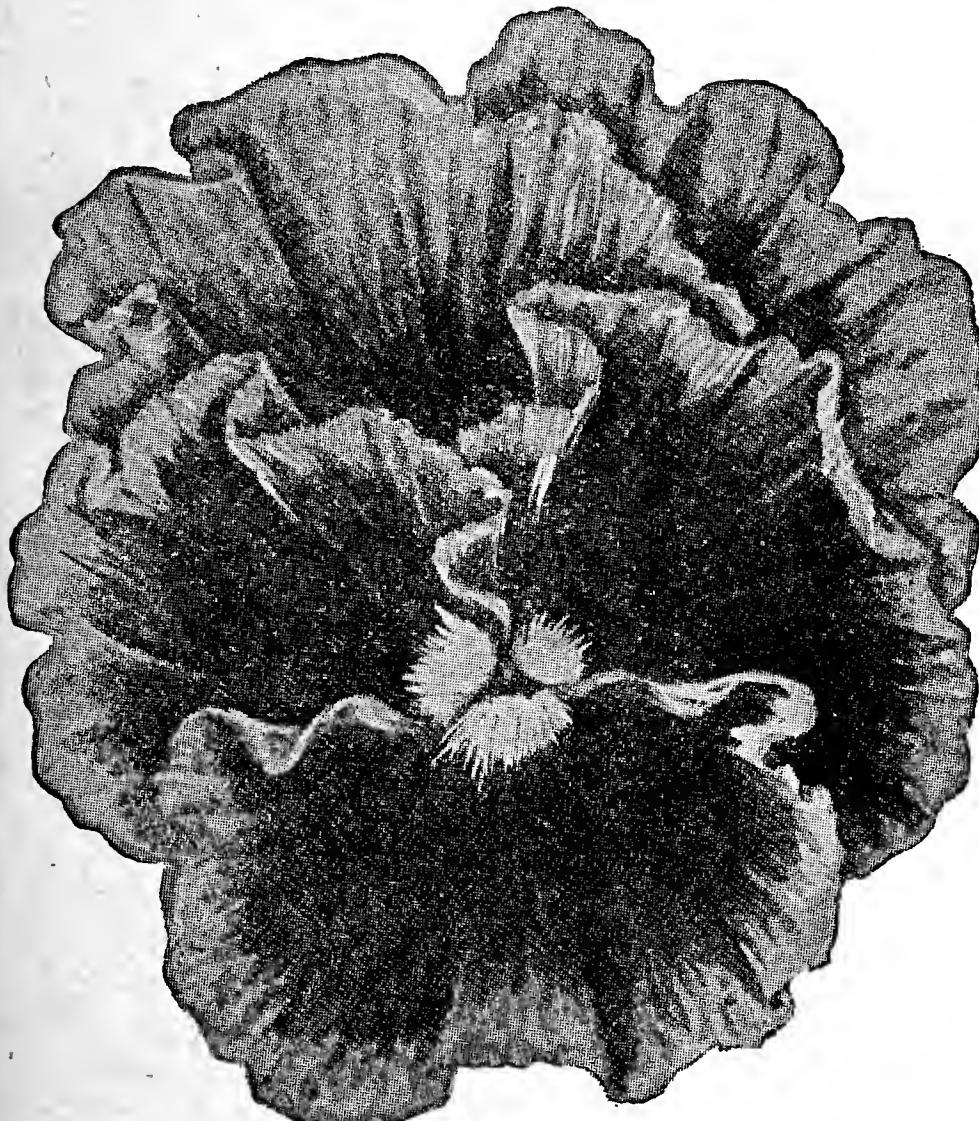
**DAMASCENA**—“Love in a Mist.” Pretty blue flowers on finely-cut foliage. Pkt., 5c.

**HISPANICA**—“Devil in a Bush.” Very similar to the above in habit, bearing double flowers of good size. Pkt., 5c.

**Oxalis**—Splendid little plants with bright colored flowers, for hanging baskets, rockwork or edgings. Half Hardy Perennial. Pkt., 10c.

**Passion Flower** — **PERENNIAL CLIMBER** — This beautiful and graceful climber is easily raised from seed. They are rapid growers, cover a large space in a short time, and bear their exquisitely formed pale blue flowers freely through the summer and fall. Sow the seed as early as you can. Pkt., 10c;  $\frac{1}{8}$  oz., 40c.

**Giant Pansies**—The seed should be started indoors in March in carefully pulverized rich soil. Cover lightly, keeping the ground moist with a spray. Pansy seed germinates slowly and grows best in a cool location with good drainage. Plants should be set outdoors in May in a sunny, open position and watered frequently. If flowers are picked regularly, the plants will continue to bloom until frost. Protect with a mulch in fall and they will endure hard winters with perfect safety.



Giant Ruffled Masterpiece

**MASTERPIECE (Giant Ruffled)**—A remarkable type, each petal being conspicuously curled or waved. The range of color is very extensive, the rich, dark, velvety shades predominating. Pkt., 15c;  $\frac{1}{8}$  oz., 75c; oz., \$5.00.

#### PERFEGRO GIANT PANSY MIXTURE

As the name implies, this is a mixture of the best Pansies we can possibly obtain. And we feel safe in saying that they are unsurpassed at any price. The handsome flowers are the largest, producing many with ruffled and fluted petals. The colors are rich and bright with many solid colors of a deep, velvety texture. The large flowers often measure  $2\frac{1}{2}$  inches across and have long, stiff stems. They are more uniform than most mixtures. Pkt., 25c;  $\frac{1}{8}$  oz., \$1.00; oz., \$7.00.

#### GIANT TRIMARDEAU MIXTURE

We make this high grade mixture by using proportionate quantities of choicest colors of the large flowering Trimardeau Pansies. This assures you of a mixture that is well balanced as to color and one that has large flowers and seed of good vitality. Pkt., 10c;  $\frac{1}{8}$  oz., 40c; oz., \$2.75.

#### PERFEGRO FINE PANSY MIXTURE

This is our own mixture, especially designed for showy beds. We very carefully made up this mixture from different colors of the finest pansies, many of them being the expensive large ruffled kinds. The mixture is sure to produce a bright and showy display, and we do not think as good a mixture can be bought elsewhere for so low a price. Pkt., 5c;  $\frac{1}{8}$  oz., 30c;  $\frac{1}{2}$  oz., 75c; oz., \$1.25.

**TUFTED PANSIES (Viola Cornuta)**—These flowers are not as large as the regular type of Pansies. They bloom more freely and are better suited for hot and dry locations. They are splendid for rock gardens where their clear and distinct colors are very effective. Seed sown in April produces flowering plants by June which continue to bloom till frost. All colors mixed large flowering. Pkt., 10c;  $\frac{1}{8}$  oz., 60c.

**Pansy Plants**—We grow large quantities of Pansy plants from seed imported from the best Pansy specialists of Europe and at home, and if well cared for they will produce blooms of finest colors, from 2 to 3 inches across. In ordering pansy plants, we would advise, where possible, that they be sent by express. Ready about April 1. Doz., 60c; per 100, \$4.00, postpaid.

**Pentstemon**—(Beard Tongue)—Hardy herbaceous plants which produce continuously an abundance of brilliant flowers, somewhat like the foxglove, but mostly with white throats. Makes a fine border flower. 2 to 3 feet. **GRANDIFLORA MIXED**—Pkt., 10c.

**Petunia**—We advise sowing seed thinly in shallow boxes of light, rich soil in any sunny window during February or March. When plants are well started, transplant to small pots or boxes. Do not discard the smaller plants, as these are quite apt to produce the finest flowers, especially in double flowered strains. When weather beams warm, and trees are well in leaf, these plants may be set out in rich soil 12 inches apart each way. Bedding kinds can be sown outdoors in May.

#### Large Flowering Single

Exceptional plants for bedding, pots and boxes. Our seed is grown by a petunia specialist.

**ELK'S PRIDE**—Royal purple. Pkt., 25c.

**PRIDE OF PORTLAND**—Deep rose. Pkt., 25c.

**SCARLET BEAUTY**—Red with maroon throat. Ruffled. Pkt., 25c.

**WHITE BEAUTY**—Purest white with yellow throat. Pkt., 25c.

**LARGE FLOWERING**—Finest mixed colors. Pkt., 10c;  $\frac{1}{8}$  oz., 30c.

#### Balcony Sorts

These large and beautiful Petunias were bred to produce a wealth of bloom when grown in porch or window boxes, or garden vases. The blooms are in solid colors—blue, rose, white and crimson. When grown in beds or borders they produce pleasing, striking effects. Mixed colors. Pkt., 25c.

#### Fringed Varieties

**FLUFFY RUFFLES**—A special strain of light and dark shades finely fringed and ruffled. Pkt., 35c.

**THEODOSIA**—This recent introduction is deservedly one of the most popular petunias. The flowers are of medium size with edges heavily frilled. Color is a deep rose-pink with a pure golden center finely striped. Pkt., 35c.

**GIANT OF CALIFORNIA**—Bears gigantic flowers often 5 or more inches in diameter of an astonishing variety of colors. One feature of excellence is the deep throat and the diversity of veining in the throat. Flowers are beautifully ruffled and frilled. Pkt., 35c.

#### Giant Double Petunias

This mixture includes the best of the giant double and double fringed sorts. For beauty of form and coloring, these Petunias surpass every other strain. The weaker seedlings should be carefully saved, as they produce the best colors. Only a certain percentage of double flowers will come true, but the balance will be giant single flowers, some frilled. Pkt., 35c.

#### Single Bedding Petunias

**GENERAL DODD'S**—Rich crimson garnet. Pkt., 10c.

**ROSY MORN**—Brilliant rose with white throat. Very desirable for beds or borders. Pkt., 10c.

**HOWARD'S STAR**—Improved. Velvety purple with pure white star. Pkt., 10c.

**ROSE OF HEAVEN**—9 in. Fiery rose. Pkt., 10c.

**BLUE BIRD**—12 in. Very deep violet. Pkt., 10c.

**SNOWBALL**—8 in. Pure white. Pkt., 10c.

**DE LUXE MIXED**—A well balanced mixture of the above and many other colors for bedding. Pkt., 10c;  $\frac{1}{8}$  oz., 30c.



Petunia

**Pinks—FINEST SINGLE MIXED**—A mixture of China, Hedgewigii and Imperial Pinks. Nothing better. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**PLUMARIS, PHEASANT'S EYE OR GRASS PINK**—Fine for massing, closely allied to the Carnation, but smaller flower and more hardy. Flowers are very fragrant. Hardy perennial. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**DOUBLE MIXED**—This is a very choice mixture of this fragrant, hardy plant. They are very double, and can be propagated by division of roots. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**Portulaca**—This charming little hardy annual is unrivaled for brilliancy. Nothing is prettier for beds, edging and rockwork, and it is frequently used to sow broadcast over sunny banks, etc. As an undergrowth for taller plants, it is also valuable. The seed does not germinate until hot weather, and should be sown late. The flowers are of the richest colors and are produced all summer in great profusion. Average height, 6 inches.

**SINGLE-FLOWERED MIXTURE**—White, Golden Yellow, Striped Rose, Rich Rose, Crimson, Scarlet, Bright Yellow, Purple and Salmon. Pkt., 5c;  $\frac{1}{4}$  oz., 25c.

**DOUBLE-FLOWERED MIXTURE**—Same colors as in single-flowered. Flowers resembling tiny roses. Pkt., 10c;  $\frac{1}{8}$  oz., 40c.

**Phlox Drummondii**—(Annual Large Flowering Phlox)—Valuable for bedding and borders, also for cutting. The flowers grow in flat clusters, and come in a wide range of bright colorings. Phlox is easily grown, as the seed may simply be sown broadcast and raked in very lightly, in warm, rich soil, and a sunny position.

White	Pink	Scarlet
Violet	Buff	Star

Each of the above. Pkt., 10c.

No. 13 Collection one pkt. each of above varieties for 50c.

**GRANDIFLORA**—Mixed. Pkt., 10c;  $\frac{1}{8}$  oz., 20c; oz., \$1.00.

**STAR PHLOX**—A dwarf, compact-growing variety, bearing quantities of pretty star-shaped flowers in many brilliant colors. All colors mixed. Pkt., 10c;  $\frac{1}{8}$  oz., 25c.

**HARDY PERENNIAL PHLOX (Decussata)**—Tall, massive trusses of flowers in a wide range of brilliant colors are produced throughout the summer. Plants require good soil and plenty of sun, and should be divided every two or three years. Seed germinates slowly. Pkt., 15c.

**Primula—CHINESE PRIMROSE**—This is one of the most charming winter flowering house plants. The flowers are remarkable, not only for size, beauty and brilliancy of the colors, but for the great substance of the petals. Pkt., 15c.

**Pueraria—THUNBERGIANA, "THE KUDZU VINE"**—Perennial climber. The fastest growing hardy climbing vine. Grows 10 feet the first year from seed and when established 50 feet a season is not unusual. Large foliage and rosy-purple, pea-shaped flowers. Splendid for covering permanently dead trees, fences and verandas. Pkt., 10c;  $\frac{1}{2}$  oz., 25c.



Salpiglossis

**Poppies**—Hardy annuals and perennials of quick growth and easy culture, yielding a wealth of gorgeous blooms. For beds and borders nothing is better. Sow annual varieties where they are to bloom, perennial sorts may be transplanted. Barely cover the seeds and press the soil firmly. Sow early in the spring, at intervals during the summer and in the fall, for a succession. Cut the flowers regularly to insure a long blooming season.

#### ANNUAL POPPIES

##### AMERICAN LEGION

This new single Shirley is a dazzling orange scarlet of enormous size, borne on long, stout stems. The plants are very erect, robust growth. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.



Carnation Flowered Poppy

**DOUBLE CARNATION-FLOWERED**—A magnificent fringed poppy of dazzling richness and variety of colors. Pkt., 5c;  $\frac{1}{4}$  oz., 15c.

**SHIRLEY**—Remarkably brilliant and free-flowering. Range from pale rose to deep crimson, delicately edged and fringed. Mixed colors. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

**TULIP**—Single bright scarlet tulip-shaped flowers, a black spot appearing at the base of each petal. Hardy Annual. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

#### Perennial Poppies

**ORIENTAL HARDY POPPIES**—Oriental Poppies rival in gorgeous beauty the Darwin Tulips and are one of the showiest, most effective flowers grown; height, 2 to 3 feet, flowers immense, often 6 inches across. Pkt., 10c;  $\frac{1}{8}$  oz., 20c.

**ICELAND**—Resembles crushed satin; blooms continually from June to October, blooming the first season and for 3 to 4 years following. All colors mixed. Pkt., 10c;  $\frac{1}{8}$  oz., 25c.

**Pyrethrum—GOLDEN FEATHER, PARTHENIUM AUREUM**—The pretty yellow dwarf plant, in combination with Lobelia or Ageratum, makes one of the prettiest of border or carpet beds. Pkt., 10c;  $\frac{1}{4}$  oz., 20c.

**ROSEUM HYBRIDUM**—Hardy perennial. The blooms on this plant resemble large daisies or Cosmos, and range in color from white to deep red, with bright yellow centers. Flowers in May and again in the fall, and is one of the most graceful and long-lasting of the cut flowers. Pkt., 10c;  $\frac{1}{4}$  oz., 50c.

**Salpiglossis**—(Painted Tongue or Velvet Flower)—Showy annuals of exquisite form and color, which bloom from July to October. Sow outdoors, in rows, when danger of frost is past, in rich sandy loam having good drainage. Cover lightly and water carefully. Flowers range from deep crimson, rose and purple, through gold, pale blue, and white, usually veined with gold. Crimson, Yellow, Violet, Red, Bicolor. Each, Pkt., 10c.

**EMPERIOR**—An improved strain; growth is more compact, and flowers larger. Mixed, Pkt., 10c.

Mixed—Shades and markings. Pkt., 10c;  $\frac{1}{8}$  oz., 20c.

**Salvia Splendens—SCARLET SAGE**—One of the handsomest flower plants for garden decorations. Excellent for large beds and borders, brilliant scarlet; blooms from July until frost; height 3 feet. Seed should be sown indoors or in a hotbed and the young plants transferred to the open ground when the weather becomes suitable. Pkt., 10c;  $\frac{1}{8}$  oz., 40c.

**BONFIRE**—Plants form healthy bushes about 2 feet high by 2 feet across. Spikes grow erect and stand clear above the foliage, completely covering the plant, and are of a most brilliant, dazzling scarlet. One of the finest sorts. Pkt., 15c;  $\frac{1}{8}$  oz., 75c.

**Schizanthus—BUTTERFLY FLOWER**—This is one of the most charming flowers for the garden in summer and for the house in winter. The plants are covered with a multitude of small butterfly-like flowers of the most brilliant and striking designs. Hardy annual. Mixed colors. Pkt., 10c;  $\frac{1}{8}$  oz., 25c.

**Scarlet Runner Bean**—A great favorite in England and Europe, not only as an ornamental climber, but for the delicious edible beans which succeed the sprays of bright scarlet pea-shaped blossoms. Pkt., 5c;  $\frac{1}{2}$  lb., 25c; lb., 40c.

**Snapdragon—ANTIRRHINUM**—These pretty half-hardy Perennials that bloom from July until frost, belong to the aristocrats of the garden. Appearing as they do, in the most pleasing shades, with the pretty flowers completely encircling the stout stems to fully a foot to 18 inches at the top, they are most useful for bedding or as a cut flower. By all means include Snapdragon in your garden.

Seed sown in the house in March and the plants set out in May, they will flower in June and July and continue until late in the fall. Seed sown in the open ground early in the spring will produce plants that flower in August. If given protection, the plants will often survive the winter and flower in the spring.

#### SEPARATE COLORS:

**BRIGHT ROSE**

**CRESCIA**—Reddish purple.

**DEFIANCE**—Scarlet.

**DELILA**—Carmine, white tube.

**GOLDEN KING**—Giant yellow.

**MAHOGANY**—Maroon.

**NIGRICANS**—Purple.

**QUEEN VICTORIA**—Pure white.

**ROSE QUEEN**—Soft pink.

Each of the above, Pkt., 10c;  $\frac{1}{8}$  oz., 25c.

**TALL MIXED**—A tall growing type, 2  $\frac{1}{2}$  feet in height, with long, graceful spikes carrying many fair-sized blooms. Our mixture includes a wide range of colors. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**SEMI-TALL SORTS**—18 to 20 inches. Are particularly good for bedding, as they require no staking. The flowers are most wonderful, in many new shades and tints. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**PERFECT BLUE RIBBON MIXTURE**—The individual blooms are extra large; are closely set on long spikes, and are particularly fine. Pkt., 25c;  $\frac{1}{8}$  oz., 40c.



**Schizanthus**

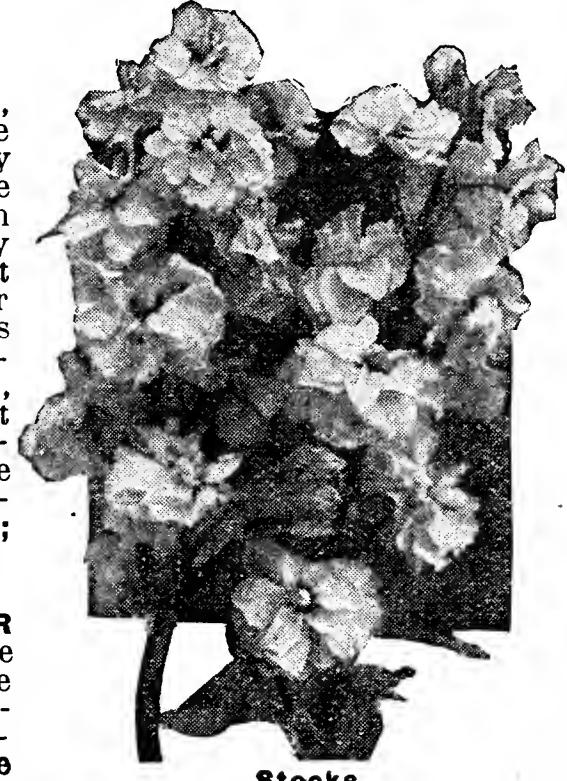
**Silene (Catchfly)—ARMERIA**—Hardy Annual. An easily grown and extremely showy bedding or border plant, growing from 6 to 10 inches tall. From June until frost the plants are covered with masses of flowers in shades of salmon, rose, carmine, and white. Not particular as to soil and weather conditions. Sow the seed outdoors late April or early May. Pkt., 5c.

**Smilax—MYRISPHYLLUM ASPARAGOIDES**—A very graceful climber for the greenhouse or window; used for bouquets or wreaths. Soak the seed before planting and sow in shallow boxes in the house in February and transplant to permanent bed when large enough. Tender Perennial. Pkt., 10c;  $\frac{1}{4}$  oz., 25c.

**Statice—SEA LAVENDER**—The cloudlike masses of flowers make our borders gay for a long period. The flowers can be dried and used for winter decorations. Color, clear mauve. Pkt., 10c;  $\frac{1}{8}$  oz., 40c.

#### Stocks—TEN WEEKS—

For brilliancy of color, fragrance and abundance of bloom this easily grown annual cannot be excelled. Seed sown in April will produce bushy plants 2 feet high that begin, in July, to bear numerous large spikes of double, fragrant flowers of blood-red, lilac, white, rose, scarlet, light and dark blue, creamy-yellow and pink. We offer this rainbow mixture of colors. Pkt., 10c;  $\frac{1}{8}$  oz., 35c.



**GIANT BISMARCK OR IMPERIAL**—One of the best stocks for outside planting; of pyramidal form, strong and robust, gives large double flowers. A

splendid sort for cutting. Mixed colors. Pkt., 15c;  $\frac{1}{8}$  oz., 40c.

**Stokesia—CYANEA "Cornflower Aster"**—A hardy perennial for permanent border or beds. Easy to grow; blooms the first season, producing lavender flowers from June till frost. 2 feet high. Pkt., 5c.

**Sweet Rocket**—Perennial. Also known as "Dame's Rocket" and "Dame's Violet." Is very useful for planting among shrubbery. They bear showy spikes of white lilac and purple fragrant flowers. Sow early in May in the open ground. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

**Sweet Sultan**—Fairly covered with beautiful scented blooms that, if cut when about to open, will keep fresh for days. If planted at intervals, a constant succession of blooms may be had throughout the summer and fall; height 2  $\frac{1}{2}$  feet; easy to grow. Hardy annual. Mixed colors. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

**Sweet William**—Makes an elegant display, producing a succession of flower clusters for several weeks, the colors varied, ranging from pure white to nearly black. If sown early, will bloom the following fall; fall sowings bloom the next summer. Hardy perennial. Height 1  $\frac{1}{2}$  feet.

**FINE SINGLE MIXED**—A splendid strain. Flowers of many shades of color, including the Auricula-Eyed variety. Pkt., 5c;  $\frac{1}{4}$  oz., 25c.

**DOUBLE MIXED**—Fine mixture of double flowers which are very pretty, but not so beautiful in color or form as the single variety. Pkt., 10c;  $\frac{1}{4}$  oz., 40c.

**Thunbergia—BLACK-EYED SUSAN**—Hardy Annual. A lovely trailing plant with large showy flowers. It will trail over the ground, forming a dense mat of foliage and flowers. Colors range through all shades of yellow, orange, buff, to pure white, mostly with jet-black centers, or eyes which are very effective. All colors mixed. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

**Vinca—PERIWINKLE, "OLD MAID"**—Annual. Valuable for rockeries or makes a fine evergreen carpet under and about shrubs and trees. Rose-colored and myrtle-like flowers. Pkt., 10c;  $\frac{1}{8}$  oz., 20c.

**Sweet Peas** Early planting and plenty of moisture are the secrets of growing Sweet Peas successfully. Sweet Peas are among the seeds to be sown as soon as the soil can be worked, and should be planted 6 inches deep, being covered at first with only 2 inches of soil, the trench being filled as the plants grow. This method will give them a well-developed root system. Thin out to 2 to 4 inches apart as soon as they are above the ground. They should be staked up on stout stakes, on which wire netting has been fastened. These should be at least 4 feet high. Do not allow the roots to become dry; water at least twice a week. Gather Sweet Pea blooms frequently; the more you cut them the better and longer they bloom.

### Spencer's "Butterfly" or "Orchid Flowered"

We have a few more beautiful new varieties in our list this year; ones that greatly surpass some of the older types. It has been our intention to replace the past popular colors with corresponding new and better shades and also to include the most outstanding of the lovely new colors.

These fine late Spencer types are the most popular for summer blooming. They are huge size, delicately waved and scented and produce three to four flowers on each stem.

**AUSTIN FREDERICK**—Lovely waved, soft lavender of giant size and perfect form. Pkt., 10c; oz., 25c.

**CONSTANCE HINTON**—The best black-seeded, white flowered Spencer; flowers large and of true form. Pkt., 10c; oz., 25c.

**CRIMSON KING**—Surpasses by far all others of its class. It is a rich, true crimson. Pkt., 10c; oz., 25c.

**DOBBIE'S CREAM**—Deep primrose yellow. Pkt., 10c; oz., 25c.

**DOREEN**—A very large, bright carmine-rose, and it does not fade in hot weather. Pkt., 10c; oz., 25c.

**FLORENCE NIGHTINGALE**—Soft lavender flowers of unusual size, handsomely waved and frilled. Pkt., 10c; oz., 25c.

**FLUFFY RUFFLES**—An immense flower, duplexed and frilled with long stems. A lovely rich rose-pink, a gleam of soft salmon and a bright creamy undertone blend into a harmonious cream-pink shade, too exquisite for description. Pkt., 10c; oz., 25c.

**GUINEA GOLD**—A glowing orange Sweet Pea shaded with gold. Never fails to attract attention because of its exceptionally brilliant hue. Pkt., 10c; oz., 25c.

**HAWLMARK PINK**—Rose pink suffused with salmon. One of the most beautiful of all Sweet Peas. Pkt., 10c; oz., 25c.

**HAWLMARK SCARLET**—Rich flaming scarlet. Pkt., 10c; oz., 25c.

**HEAVENLY BLUE**—Rare new shade of Delphinium blue. Pkt., 10c; oz., 25c.

**HEBE**—A new bright pink Sweet Pea of mammoth size. Pkt., 10c; oz., 25c.

**KING MAUVE**—The largest mauve, beautifully waved. Pkt., 10c; oz., 25c.

**KING WHITE**—Large, waved, pure white. Pkt., 10c; oz., 25c.

**MARY PICKFORD**—A very appealing shade of cream-pink with a soft suffusion of salmon. Large flowers. Pkt., 10c; oz., 25c.

**MISS CALIFORNIA**—This new variety may best be described as a rich, clear cream-pink, blended with delicate orange-salmon. Pkt., 10c; oz., 25c.

**OTHELLO**—A rich deep maroon. Pkt., 10c; oz., 25c.

**ROYAL PURPLE**—Flowers of immense size. Rich Royal Purple. Pkt., 10c; oz., 25c.

**THE LADY EVELYN**—Here is a shade which is quite a favorite with many. It is a pleasing rosy-mauve. Pkt., 10c; oz., 25c.

**YOUTH**—Very fragrant giant white flower edged with rose-pink. Pkt., 10c; oz., 25c.



### No. 14—SPECIAL COLLECTION OF BUTTERFLY OR ORCHID FLOWERING SWEET PEAS

Ten full sized packets, all separate colors: White, Pink, Yellow, Lavender, Rose, Purple, Maroon, Scarlet, Salmon, Blue. Postpaid, 75c; (Regular price, \$1.00).

### SWEET PEAS IN MIXTURE

Persegro Blend of Re-selected Spencer. Made up from our complete list of named varieties, including those of recent introduction. We have been very careful in preparing this mixture so that each package will contain a proper proportion of color; also seeds of the choicest varieties. Pkt., 10c; oz., 25c; 1/4 lb., 75c; 1b., \$2.50.

**SPECIAL FIELD GROWN MIXED SPENCERS**—A really first-class mixture of all different colors. Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1b., \$1.25.

**CHOICE MIXTURE OF GRANDIFLORA TYPE**—Are considered easier to grow than the Spencers. Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1b., 90c.

**CALIFORNIA GIANTS MIXED**—We offer the best of this old standard of Sweet Peas of the large flowered, straight petal type. These are old favorites. Pkt., 5c; oz., 15c; 1/4 lb., 25c; 1b., 90c.



### EVER GREEN

Non-Poisonous Insecticide

### KILLS INSECTS

Both Chewing and Sucking Types

For Aphis or Red Spider use Evergreen Plant Spray, they will keep them in subjection if vigorously applied to both sides of the leaf with a hand spray.

If, when spading up your ground for your Sweet Peas, you spade under a liberal amount of Pulverized Sheep Manure, and use Steamed Bone Meal every two or three weeks after they are up, you will find that you have been amply repaid by their earliness and color of blossoms. If the soil is in good rich condition, Steamed Bone Meal is the best fertilizer.

### PRICES

1 oz. bottle, postpaid.....	\$0.35
6 oz. bottle, postpaid.....	1.10
16 oz. bottle, postpaid.....	2.15
32 oz. can (Express), not postpaid.....	3.50



To insure increased yield and early production, **NITRAGIN BAC-TERIA** is very beneficial. Be sure to inoculate your seed with it. Does wonders in producing growth and bloom. Small-size package, enough for 5 pounds of seed, only 25c, postpaid.



Verbena

**Verbena**—For a brilliant display in the garden, in beds and in borders, these Mammoth Flowering Verbenas with their giant heads of showy flowers that are in bloom from July until frost cannot be surpassed. For very early flowers start the seed indoors and transplant. Seed sown outdoors in May will make blooming plants in July.

**MAMMOTH WHITE**  
**MAMMOTH BLUE**

Each of the above, Pkt., 10c;  $\frac{1}{8}$  oz., 25c.

**COLLECTION**—One package of each color for 30c.

**HYBRIDS**—Large flowering. A splendid mixture of richest colorings and immense blooms. Pkt., 5c;  $\frac{1}{4}$  oz., 35c.

**Violets—SWEET SCENTED**—Perennial. They are so easily raised from seed, and need so little attention, that if you plant them in a cool, moist, sheltered position, you will be repaid doubly by the sweet-scented blooms in early summer. Sow in early spring when the ground is warm. Pkt., 10c;  $\frac{1}{8}$  oz., 60c.

**Wallflower—GILLIFLOWER**—Half Hardy Perennial. These should be sown in every garden. They are very fragrant and bloom early in the spring. They should be protected by a cold frame in the winter. Sow the seed in May and transplant into rich garden soil, and protect as above directed.

**FINEST DOUBLE**—Mixed colors. Very fragrant. Pkt., 10c.

**Wild Cucumber**—(*Echinocystis Lobata*). Quick growing annual climber, with dense foliage and sprays of delicate flowers. These are followed by an abundance of ornamental and prickly seed pods. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 50c.

**Wisteria—HARDY PERENNIAL CLIMBER**—A vine of great value on arbors, trees or buildings. Bears large racemes of purple blossoms in profusion in spring. One of the most satisfactory of the hardy climbers. Pkt., 10c.

**Woolflower—CHINESE WOOLFLOWER**—Plants about 2  $\frac{1}{2}$  feet high, branch freely and produce large, globular flowers which resemble a ball of brilliantly colored wool. Mixed. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

## Zinnia (Youth and Old Age)

There are but a few flowers as easy to raise as Zinnias and there are no flowers that will make such a wonderful display of color for as little expense and effort. Their big, bright-colored blooms are the most showy of all flowers, remaining in bloom for two months.

If sown in the open ground in April, thin out as soon as the plants are well up, leaving at least 18 inches each way, as they are robust growers, and require a large amount of space to attain maximum size.

### Giant Dahlia-Flowered Zinnias

These Dahlia-Flowered Zinnias are a grand new giant-flowering strain of high quality. The plants are exceedingly vigorous, growing fully 3 feet high, while the flowers which are similar in shape to the double Decorative Dahlia, will range from 6 to 8 inches in diameter. They are the largest Zinnias known.

**CANARY BIRD**—A delicate shade of primrose, very large and holds its color well until out of bloom.

**CRIMSON MONARCH**—Rich crimson. By far the largest and best of red shades. Flowers often eight inches in diameter.

**DREAM**—A very new and unusual shade of deep lavender, not often seen in Zinnias.

**EXQUISITE**—By far the most pleasing of our collection.

Color light rose with center a deep rose.

**ILLUMINATION**—Similar to Exquisite but a striking self-color of deep rose.

**ORIOLE**—It is an immense orange and gold bi-color, changing lightly as it ages, but at all times worthy of the beautiful bird for which it is named.

**POLAR BEAR**—A very large pure white, the best white yet seen in Zinnias. True Dahlia form.

**PURPLE PRINCE**—A fine, deep purple, large and well formed.

Each of the above, Pkt., 10c;  $\frac{1}{8}$  oz., 30c;  $\frac{1}{4}$  oz., 50c; 1 oz., \$1.50.

**DAHLIA-FLOWERED MIXTURE**—A mixture of every imaginable color and the most interesting to grow. Every few days one will find new colors and still larger flowers. Some of the enormous flowers are of unusual shades of salmon, cerise, old rose, raspberry-red and orange. Pkt., 10c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 55c; oz., \$1.00.

### Grandiflora Giant Zinnias

Giant in size and perfectly double round and full-flowered. It is not at all unusual for the flowers to measure 4 and 5 inches across. Besides being exceedingly attractive in the garden they make fine and lasting cut flowers. Allow each plant 12 to 15 inches to have the largest blooms. Robusta, mixed. Pkt., 10c;  $\frac{1}{4}$  oz., 25c; oz., 75c.

**DOUBLE STRIPED OR ZEBRA**—A very beautiful strain with striped flowers; large, perfectly double blooms of various colors, some blotched, striped and mottled, and different shades; hardly any two plants with flowers alike. Pkt., 10c;  $\frac{1}{4}$  oz., 25c; oz., 85c.

**MAMMOTH SCARLET**  
**MAMMOTH PURPLE**

Each of the above, Pkt., 10c;  $\frac{1}{8}$  oz., 25c.

**COLLECTION**—One package of each color for 30c.

**HYBRIDS**—Large flowering. A splendid mixture of richest colorings and immense blooms. Pkt., 5c;  $\frac{1}{4}$  oz., 35c.

**Violets—SWEET SCENTED**—Perennial. They are so easily raised from seed, and need so little attention, that if you plant them in a cool, moist, sheltered position, you will be repaid doubly by the sweet-scented blooms in early summer. Sow in early spring when the ground is warm. Pkt., 10c;  $\frac{1}{8}$  oz., 60c.

**Wallflower—GILLIFLOWER**—Half Hardy Perennial. These should be sown in every garden. They are very fragrant and bloom early in the spring. They should be protected by a cold frame in the winter. Sow the seed in May and transplant into rich garden soil, and protect as above directed.

**FINEST DOUBLE**—Mixed colors. Very fragrant. Pkt., 10c.

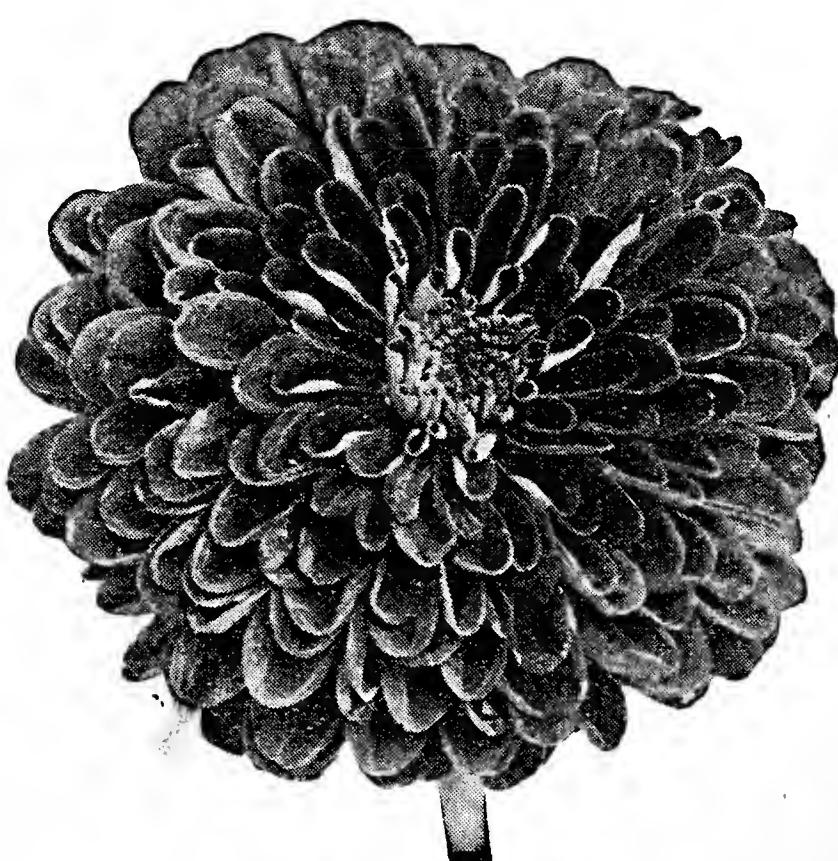
**Wild Cucumber**—(*Echinocystis Lobata*). Quick growing annual climber, with dense foliage and sprays of delicate flowers. These are followed by an abundance of ornamental and prickly seed pods. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 50c.

**Wisteria—HARDY PERENNIAL CLIMBER**—A vine of great value on arbors, trees or buildings. Bears large racemes of purple blossoms in profusion in spring. One of the most satisfactory of the hardy climbers. Pkt., 10c.

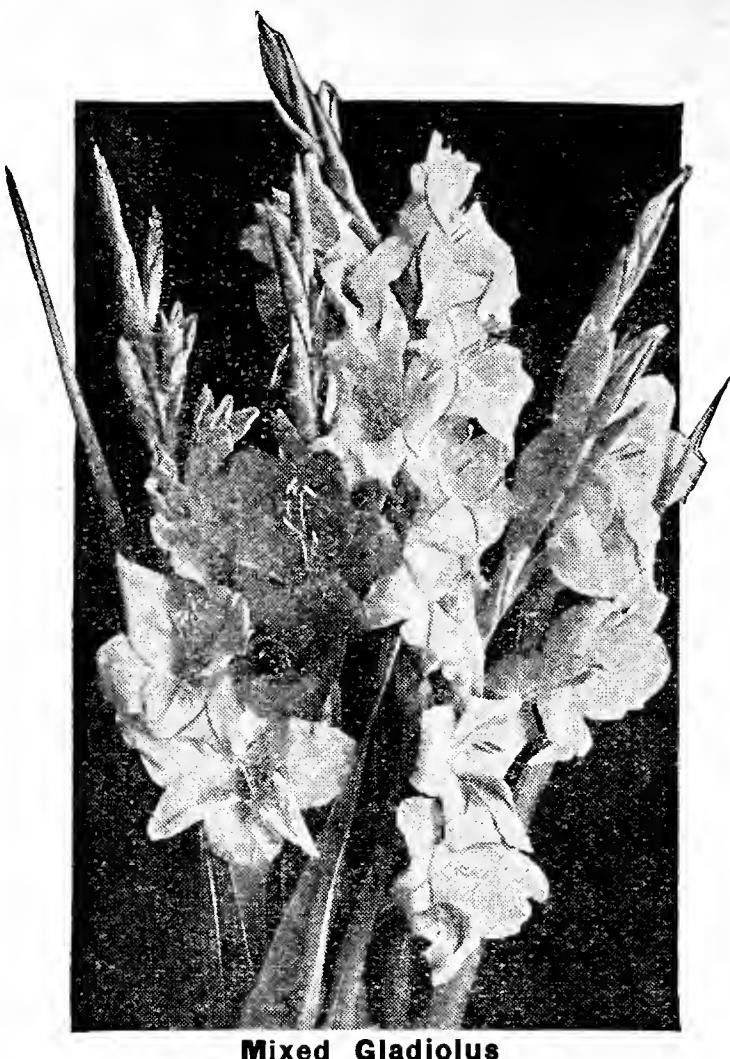
**Woolflower—CHINESE WOOLFLOWER**—Plants about 2  $\frac{1}{2}$  feet high, branch freely and produce large, globular flowers which resemble a ball of brilliantly colored wool. Mixed. Pkt., 5c;  $\frac{1}{4}$  oz., 20c.

**No. 15—SPECIAL COLLECTIONS OF GIANT DAHLIA-FLOWERED ZINNIAS**

Six full size packets, of the separate colors listed on this page, value 60c. Your choice for 50c.



Zinnia Dahlia-Flowered



Mixed Gladiolus

## Twelve Superb Modern Gladiolus

**BARON HULOT OR BLUE KING**—A really fine blue Gladiolus, in color a rich, royal violet blue, very effective when cut and used in conjunction with a yellow variety. **4 for 25c; doz., 60c, Postpaid.**

**CAPT. FRYATT**—Beautiful brick red with white feathering on lower petals, tall spike. **4 for 25c; doz., 60c, Postpaid.**

**DR. F. E. BENNETT**—Peach red overlaid with flame scarlet, throat speckled ruby and creamy white. Very large flowers of great substance; many open at a time on strong stem. Sturdy grower. **3 for 25c; doz., 75c, Postpaid.**

**GIANT NYMPH**—Light rose pink, with creamy yellow throat; very large flowers well arranged on long stems. **3 for 25c; doz., 75c, Postpaid.**

**GOLDEN MEASURE (New)**—This is the first large rich yellow variety that has been introduced. A marvelous flower and free grower. **4 for 25c; doz., 60c, Postpaid.**

**LOS ANGELES**—A real "cut-and-come-again" Gladiolus, each bulb generally produces from 2 to 3 delightful large flowers. Shrimp-pink with orange-carmine throat. The pleasing color tone is unusually delicate. **4 for 25c; doz., 60c, Postpaid.**

**LOUISE**—Large orchid-like flowers of an exquisite lavender shade, with light purple blotch in throat. **4 for 25c; doz., 60c, Postpaid.**

**MRS. LEON DOUGLAS**—Begonia rose, striped with flame scarlet, lower petal pale lemon, speckled ruby; extra large flowers on very tall strong stem. **3 for 25c; doz., 75c, Postpaid.**

**MR. W. H. PHIPPS**—La France pink overlaid with salmon rose, lighter towards the center; lower petals faintly striped and speckled with ruby. Enormous flowers, as many as 20 open at a time and perfectly placed on gigantic stems; a real super-glad. **3 for 25c; doz., 75c, Postpaid.**

**NANCY HANKS**—Rich apricot to orange-pink with grenadine tongue. Vigorous grower and rapid multiplier. Will not burn in hot climate. **4 for 25c; doz., 60c, Postpaid.**

**PINK WONDER**—La France pink, strong vigorous grower, immense size. **4 for 25c; doz., 60c, Postpaid.**

**VENUS**—Milky white, overlaid with pale pink. **4 for 25c; doz., 60c, Postpaid.**

## Gladiolus

The Gladiolus is the most attractive of all the summer flowering bulbs; it should have a place in every garden, large or small. For a succession plant from April till June. Plant 6 inches apart and 4 inches deep. They will grow and bloom in any soil; we have never known anyone to fail with them.

The following list represents the best of both new and old favorites, both as to range of color and size of blooms. All bulbs offered by us are Colorado grown, of blooming size and are sure to give complete satisfaction.

### Popular Named Gladiolus

**AMERICA**—Very light pink, exquisitely tinted with lavender. A magnificent variety. **5 for 25c; doz., 50c, Postpaid.**

**DIANA**—Clear, rich, mellow, blood-red grand spike of well-placed flowers. Considered by many the best red to date. **4 for 25c; doz., 60c, Postpaid.**

**HALLEY**—Large flowers of delicate salmon-pink with a creamy blotch on lower petals. **5 for 25c; doz., 50c, Postpaid.**

**HENRY FORD**—Large, clear, deep purple flowers shading into deeper tones near the center. The best purple. **4 for 25c; doz., 60c, Postpaid.**

**LILY WHITE**—Is a large pure creamy-white, wide open flowers, rounding petals and flowers well placed on the stem. **4 for 25c; doz., 50c, Postpaid.**

**MRS. FRANCIS KING**—Bright orange scarlet, flowers often 5 in. in diameter and produced on spikes 4 ft. long, 12 to 18 flowers on each spike. Very showy and fine for cut flowers. **4 for 25c; doz., 50c, Postpaid.**

**MRS. FRANK PENDLETON**—One of the most beautiful glads. Flowers are enormous and their color is a lovely salmon pink with deep red blotches in the throat. Be sure to order it. **4 for 25c; doz., 50c, Postpaid.**

**MRS. DR. NORTON**—Large, white flowers with pink edges, lower petals have a yellow blotch. Extra fine large flowers of unusual beauty. **4 for 25c; doz., 50c, Postpaid.**

**NIAGARA**—A delightful cream shading to canary-yellow slightly splashed with rose-pink, throat shaded with carmine. **4 for 25c; doz., 50c, Postpaid.**

**PRINCE OF WALES**—Delicate salmon-pink flowers of extra-large size. **4 for 25c; doz., 50c, Postpaid.**

**1910 ROSE**—An extra good deep rose with a fine white stripe on the lower petal. **4 for 25c; doz., 50c, Postpaid.**

**E. J. SHAYLOR**—Tall, very strong plant and large blooms. A beautiful, pure, deep rose-pink. Very choice. **4 for 25c; doz., 50c, Postpaid.**

### PERFEGRO MIXTURE OF FINE GLADIOLUS

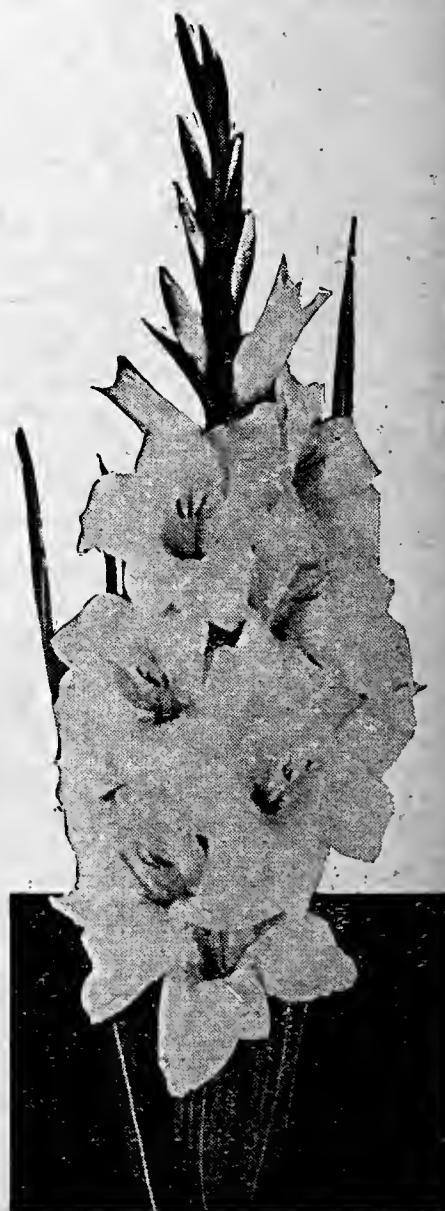
This wonderful mixture of Gladioli contains all the latest large flowering types; with every color of the rainbow. Plant them by the hundred. Doz., 35c; 3 doz., \$1.00; 100 for \$2.50, Postpaid.

### NO. 16 SPECIAL COLLECTION OF SIX POPULAR GLADIOLUS

America, Soft Shell Pink; Henry Ford, Deep Rich Purple; Halley, Salmon Pink; Lily White, White; Niagara, Primrose Yellow; Mrs. F. King, Vivid Scarlet.  
A-3 bulbs each of the six varieties (18 bulbs), Sent Postpaid for ..... \$1.00

B-6 bulbs each of the six varieties (36 bulbs), Sent Postpaid for ..... 1.50

C-12 bulbs each of the six varieties (72 bulbs), Sent Postpaid for ..... 2.75

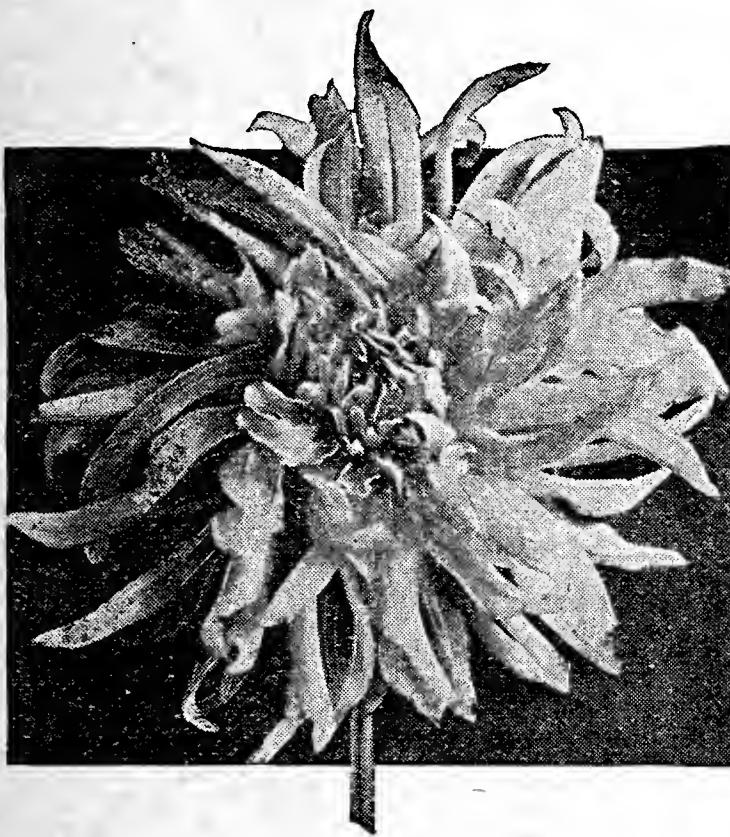


## Dahlias

Dahlias can be grown in any good soil but they will succeed best in an open sunny location. Plant when ground is warm and all danger of frost is past. Plant the bulbs 8 inches deep, laying the tuber on its side. Keep soil loose and mellow by frequent hoeing, drawing the soil to a slight hillock around the plants. 3 feet by 3 feet is about the proper distance to plant apart. After frost has killed the top, dig the tubers carefully; remove the soil from the roots and store in box or barrel secure from frost. As a precaution it is well to cover the tubers, so stored, with sand, leaves or moss. All clumps should be divided into several pieces before being reset the following spring.

The "Decorative" types are characterized by gracefully formed flowers of large size with broad petals, being intermediate in form between the compact "Ball" sorts, which are nearly round, and the "Cactus" varieties, which have loosely formed blossoms with long twisted petals.

The Peony-Flowered are of large size, with broad petals, artistically curled and twisted.



### Choice Cactus Dahlias

**DADDY BUTLER**—A very attractive flower. Rose Carmine. Each, 35c.  
**LAURINE**—Deep rich pink; a fine variety. Each, 35c.  
**RUTH NICHOLS**—Flowers are large. Color, Indian-red. Each, 35c.  
**ATLANTIC OCEAN**—Bright lemon. Fine in every way. Each, 35c.  
**WM. HAYDEN**—A dark maroon shading to almost black. Each, 35c.  
**WASHINGTON CITY**—Snow white, of beautiful form, the flowers are very large. Each, 35c.  
**COLLECTION**—One each of the above Choice Cactus Dahlias for \$2.00, postpaid.

### Show or Ball Type Dahlias

**W. W. RAWSON**—Pure white over-laid with delicate lavender.  
**A. D. LIVONI**—Rich pink, finely formed. A very handsome flower.  
**BON TON**—A fine ball-shaped flower of deep garnet red. An extra fine dahlia.  
**D. M. MOORE**—A flower of mammoth size, produced in profusion on long, stiff stems. Its color is a deep velvety maroon. It has no equal in its color.  
**GLORI DE LYON**—Pure white. One of the largest white show Dahlias in cultivation; round as a ball.  
**MAUDE ADAMS**—The color is a pure, snowy white, very effectively overlaid clear, delicate pink.  
**PURPLE GEM**—Rich, royal purple, clear and constant. This variety is a decided improvement over the old varieties. A first-class flower.  
**VIVIAN**—An exquisite flower of perfect form and long stem. A combination of pink and violet-rose. An attractive variety. Price, each, 25c; dozen, \$2.50, postpaid.  
**COLLECTION**—We offer for your selection any six of the above Show Dahlias at \$1.25, postpaid.

### Choice New Varieties

**EAGLE ROCK BEAUTY**—A large, free flowering, soft pink, tinting to ivory at tips of petals. Each, \$1.50.  
**ELITE GLORY**—One of the best giant reds. A truly spectacular Dahlia. Good stems and foliage. Each, \$1.00.  
**JERSEY IDEAL**—The flowers are held erect on strong stems. Color varies between a lavender and Phlox pink, overlaid with a decided silver sheen. Each, \$1.00.  
**ROBERT SCOTT**—Large bronze Dahlia. One of the best. Each, \$1.00.  
**LEMONADE**—Immense clear lemon yellow, flower of fine formation. Long, stiff stems. Each, \$1.50.

### Decorative Dahlias

**CHAMPAGNE**—Orange buff, suffused with a shading of pink. Each, 50c.  
**MARGARET WOODROW WILSON**—Pink, reverse phlox pink. Each, 50c.  
**PRIDE OF CALIFORNIA**—Very large and full vivid red. Each, 50c.  
**AVALON**—Clear, rich yellow. Each, 50c.  
**BUTTERFLY**—An attractive flower, a pretty shading of cream-pink. Each, 50c.  
**RADIO**—Without a doubt one of the greatest dahlias ever originated. Can be grown 11 to 12 inches in diameter. Color, blood red, edged and tipped with yellow. Each, \$1.00.  
**COLLECTION**—We offer for your selection any six of the above Decorative Dahlias at \$2.75, postpaid.

### Peony Flowered Dahlias

**BONNIE BRAE**—Cream shaded blush-pink. Each, 50c.  
**MISS COLORADO**—Pastel, pink shading to silver at outer edge of petals. Each, 50c.  
**OPALESCENT**—Color varying tints of the opal shading to cream-pink. Each, 50c.  
**KIWANIAN**—Flowers are large and perfect in form, measuring 8-9 inches normally. Color, rich American Beauty Red, shading to purple red. Each, 50c.  
**SOUTH POLE**—Very large, of fluffy form. Pure snowy white. Extra fine. Each, 50c.  
**SWEETHEART'S BOUQUET**—Color an unique shading of salmon rose, shaded with fawn; pleasing alike in both day and artificial light. Flowers are very large and stems extra long and wiry. Each, 50c.

**UNCLE SAM**—This is one of those monster peony flowered dahlias. Color orange buff, shading bitter sweet pink at tips. Stems extra long. Each, 50c.  
**COLLECTION**—We offer one each of the above Peony Flowered Dahlias at \$2.50, postpaid.

### No. 17—

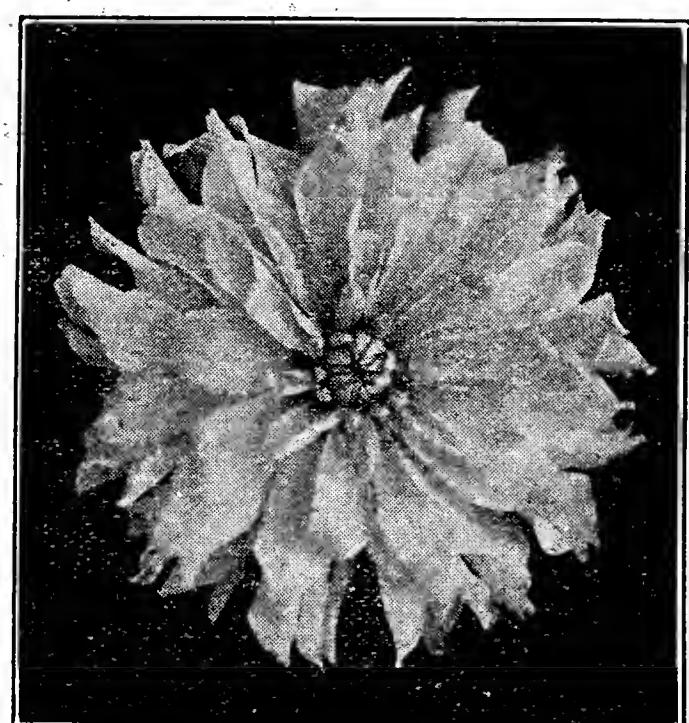
#### Special Dahlia Collection

This collection is made up of our regular First Class Bulbs only. No two alike. A wonderful assortment of 12 bulbs for \$1.25 postpaid.

### No. 17A—

#### Fancy Dahlia Collection

No two alike. 6 bulbs for 70c postpaid.



Peony Flowered Dahlia

## Large-Flowering Cannas

No other bedding plant could be found to give the same results in our varied climate; they do well in any sunny position and in any kind of soil. For best results, plant about the end of May in beds, spaded two feet deep, enriched with well-decayed manure. Water sparingly for first two weeks after planting; thereafter water liberally. For best effect, plant in large masses of one color, setting plants two feet apart.

**THE PRESIDENT**—(5 ft.) The best green-leaved, red flowered Canna grown. The flowers are immense, round, firm—often 7 inches across—of extra good quality, and flower in the greatest profusion. The color is unfading, pure, glowing scarlet. **3 for 25c; doz., 90c, postpaid.**

**KING HUMBERT**—(4 ft.) The best bronze-leaved variety. Very distinct, heart-shaped leaves shaded with purple madderbrown. Immense orchid flowered trusses of velvety orange-scarlet, flecked with carmine; rose tinted margin and base. **3 for 25c; doz., 90c, postpaid.**

**CITY OF PORTLAND**—(3 1/2 ft.) Warm rose-pink, holding its tone through both hot and cool weather. The great full-petaled trusses are borne very freely on heavy stalks and make a wonderful showing throughout the season. **2 for 25c; doz., \$1.25, postpaid.**

**WYOMING**—Massive orange colored flowers and bronze purple foliage form a striking contrast. Grows 6 ft. high. **3 for 25c; doz., 90c, postpaid.**

**YELLOW KING HUMBERT**—(4 ft.) A "sport" from King Humbert, bearing the same graceful leaves, but richly all-green instead of bronze. The same regal type and immense size of flower, but a brilliant yellow instead of red, and produced more abundantly. Green foliage. **3 for 25c; doz., 90c, postpaid.**



Canna

**EUREKA**—(4 ft.) Striking white flowers which appear cream color upon opening. Very effective when used in combination with red. A very sturdy grower and remarkably free-flowering. Green foliage. **2 for 25c; doz., \$1.25, postpaid.**

**MIXED CANNAS**—All colors, but not labeled. **Each 10c; 75c per doz., postpaid.**

### No. 18—Canna Collection

No. 1—\$1.00
12 Bulbs—2 each of above six varieties.
No. 2—\$1.85
24 Bulbs—4 each of above six varieties.

## Beautiful Peonies



**COURONNE D'OR**—Late, large full flower of superb form, color white, reflecting yellow, outer petals bordered with carmine, showing golden stamens through the flower. **Postpaid: 50c each; 3 for \$1.25.**

**DUCHESS DE NEMOURS**—Crown type, early. Follows Festiva Maxima by a few days. A splendid cup-shaped, sulphur-white flower with a greenish reflex that lights up the entire blossom, which gradually changes to a pure white. Exceptionally beautiful in the half-opened bud stage. **Postpaid: 50c each; 3 for \$1.25.**

**DUCHESS DE ORLEANS**—Late, very deep pink with violaceous tints on center petals interspersed with salmon; strong plant, good cut flower. **Postpaid: 50c each; 3 for \$1.25.**

**EDULIS SUPERBA**—Early fine flower; full high tufted center, color bright pink; very fragrant and good grower; good cut flower variety. **Postpaid: 50c; 3 for \$1.25.**

**FESTIVA MAXIMA**—Rose-type; early. The finest white in existence. Pure white with clear carmine spots on edge of center petals. **Postpaid: 50c each; 3 for \$1.25.**

**JULES CALOT**—Good deep pink. Profuse bloomer. Very large flowers may be obtained by disbudding. Strong plants blooming in mid-season. **Postpaid: 50c each, 3 for \$1.25.**

**KARL ROSENFIELD**—Large, globular, compact, semi-rose type. Dark, rich, crimson; very strong, tall, compact grower; free bloomer. Late mid-season. **Postpaid: 75c each; 3 for \$2.10.**

**MEDIA**—Clear, deep pink or rose of perfect form; very large size. **Postpaid: \$1.00 each; 3 for \$2.75.**

**MEISSONIER**—Bomb type, mid-season. American Beauty Red; full double flowers on wiry stems. One of the best cut flower varieties. **Postpaid: 50c each; 3 for \$1.25.**

**MME. DUCHEL**—Large globular blooms of soft pink, free bloomer. Fragrant. Very good for cutting and blooming in mid-season. **Postpaid: 50c each; 3 for \$1.25.**

These splendid flowers should have a place in every garden. They are seldom attacked by insects or disease and are perfectly hardy, requiring no covering in the severest climates. A good rich soil is essential, using bone meal as a fertilizer, avoiding fresh manure. An important point to observe is that peonies should not be planted too deep. Place the roots so that the crowns are covered with 2 inches of soil. We offer the following list of the best varieties, 3 to 5 eye strong, field grown roots.

**OFFICINALIS RUBRA**—A large round bloomer of vivid crimson, earliest of all good peonies, is generally in bloom on Decoration Day. The bright red "piney" of our grandmothers gardens. **Postpaid: 75c; 3 for \$2.10.**

**RUBRA SUPERBA**—This brings up the rear of the flowering season and is considered one of the best of all the crimson. **Postpaid: 60c; 3 for \$1.50.**

Unnamed Peonies selected to color, WHITE, PINK and RED.

**Postpaid: 35c each; 3 for \$1.00; \$3.50 per doz.**

## Caladium (Elephant Ear)

**ESCULENTUM**—Very effective plants for beds, borders, or single specimens on the lawn. This is the common variety seen in many of the public parks. They should be planted where they may be watered regularly and in rich light soil, if possible. Grows from 5 to 9 feet high and produces immense light leaves often 3 to 4 feet long and 2 1/2 feet wide. **Large size bulbs, 2 for 25c; 6 for 65c, postpaid.**

## Cinnamon Vine

Perfectly hardy, thrives everywhere in sun or shade, and once planted will grow a lifetime and be a constant delight. They will grow 30 feet in a single season. Roots will keep perfectly. Plant any time from earliest spring up to July 15th. **3 for 25c; 12 for 75c, postpaid.**

## Madeira Vine

(Climbing Mignonette)

A beautiful vine, covering a large space in a short time. Heart-shaped light green leaves and clusters of pure white fragrant flowers. **3 for 25c; 12 for 75c, postpaid.**

## Double Pearl Tuberoses

One of the most delightfully fragrant and beautiful of the summer flowering bulbs. Plant as soon as the ground becomes warm. Strong flowering bulbs. First size, **3 for 20c; 12 for 65c, postpaid.**

## Hardy Perennial Plants

Ready for delivery during April and early May, and again in late September and October. All are strong healthy roots. No plants sent C. O. D.

**AQUILEGIA OR (COLUMBINE)**—We offer only the True Rocky Mountain Columbine—the State Flower of Colorado. Do best in partially shaded place. Sepals deep blue with white petals. **3 plants, 50c; doz., \$1.75, postpaid.**

**ASTER HARDY**—Hardy Aster, or "Michaelmas Daisy," are of easy culture in ordinary soil and exposure; flowers appear in the autumn and are brilliant blue, purple, or white. **3 plants, 75c; doz., \$1.50, postpaid.**

**BELLIS (DOUBLE ENGLISH DAISY)**—Dwarf plants particularly desirable for borders. Will stand the winter if given protection, but for best results should be planted each year. Mixed shades of rose, white and pink. **3 for 25c; doz., 60c, postpaid.**

**BLEEDING HEART (Dierlytra)**—An old-fashioned favorite, with fine foliage and graceful sprays of pink and red heart-shaped flowers in May and June. **Each, 40c; 3 for \$1.10, postpaid.**

**CANTERBURY BELL**—Bell-shaped flowers of various colors in June and July. Fine for cutting. Grow 2 to 3 feet high and thrive in almost any soil. We offer these plants in mixed colors of white, rose, blue. **3 for 50c; doz., \$1.75, postpaid.**

**HARDY CARNATION**—Very fragrant flowers on long cutting stems. Pink, red and white. **3 plants, 50c; doz., \$1.50, postpaid.**

**CHRYSANTHEMUM (Hardy)**—They grow from 1 to 2 ft. tall in every shade of crimson, yellow, orange, pink and white, and stand out more prominent when the first killing frosts have swept the garden. **3 plants, 60c; doz., \$2.00, postpaid.**

**COREOPSIS**—Rich, golden yellow daisy-like flowers on long straight stems. One of the best cut flowers. **3 plants, 50c; doz., \$1.50, postpaid.**

**DAISY, PAINTED (Pyrethrum hybridum)**—Lovely showy plants, with finely cut foliage, and handsome daisy-like flowers in all shades of pink, rose and crimson. Bloom in May and June. Excellent for massing and cut flowers. **3 plants, 50c; doz., \$1.75, postpaid.**

**FOXGLOVE (DIGITALIS)**—The tall, stately spikes of big, bell-shaped flowers of extraordinary size and vigor; growing 5 to 6 feet tall. A mixture of colors ranging from white and shell pink to deepest rose, many dotted with crimson. **3 plants, 50c; doz., \$1.75, postpaid.**

**GAILLARDIA (BLANKET FLOWER)**—The most satisfactory bedding or border perennial in existence. The orange blossoms are produced in perpetual profusion from June until October. Grows 12 to 18 inches high. **3 plants, 50c; doz., \$1.50, postpaid.**

**GARDEN PINKS**—We offer a selected strain in mixed colors which will furnish an abundance of cut flowers during June and July. Grows 1 foot high. **3 plants, 50c; doz., \$1.75, postpaid.**

**GYPSOPHILA (BABY BREATH)**—Masses of minute, delicate, pure white flowers in June and July. Its beautiful gauze-like appearance makes it almost indispensable for use in bouquets of other old-fashioned flowers. Grows 2 to 3 feet high. **3 plants, 50c; doz., \$1.75, postpaid.**

**GYPSOPHILA FL. PL.**—A double form of the above. Blooms two weeks later. Each flower is double. The most valuable introduction in recent years. **Each, 50c, postpaid.**

**FERNS HARDY**—We offer only the hardy Colorado male fern. These ferns are extremely hardy and will grow in a shady place when other flowers will not do so well. Their dark green sword-like foliage are splendid for bouquets. **3 roots, \$1.00, postpaid.**

**FORGET-ME-NOT**—This old-fashioned favorite makes a fine showing in a shady spot or in a border. Their pale blue and pink flowers make a splendid showing from early summer until frost. They need protecting in the winter. **3 plants, 25c; doz., 60c, postpaid.**

**HOLLYHOCKS**—Stately, majestic spikes 6 to 8 feet high, of peony-like flowers in July and August. Planted in a group as a background to the perennial garden or interspersed with shrubbery on the lawn, the bold striking colors of the blossoms produce an effect not obtainable with any other shrub or plant. We offer double white, red, pink and yellow. **3 plants, 50c; doz., \$1.75, postpaid.**

**ORIENTAL POPPY**—Tremendous, cup-shaped blooms of brightest crimson-scarlet, with large, purplish-black blotches at base of petals, from May to July. Grows 2 to 3 feet high. **3 for 50c; doz., \$1.75, postpaid.**

**TIGER LILY**—Showy orange flowers in August and September, on 2 to 4 foot stems. **3 for 50c; doz., \$1.75, postpaid.**



### Beautiful Iris

**The Orchid of the Hardy Garden.** The flowers are large and handsome and some are deliciously fragrant. Iris make a wonderful display of rich color in the garden and are highly prized for cut flowers.

**BLACK PRINCE**—Rich purple; almost black. Early. **3 for 25c; doz., 90c, postpaid.**

**CAPRICE**—Claret-red, falls deeper color; grape scent. Early. 24 inches. **3 for 25c; doz., 90c, postpaid.**

**DR. BERNICE**—Coppery bronze; falls velvety crimson. Medium early. 24 inches. **3 for 25c; doz., 90c, postpaid.**

**GERTRUDE**—Deep violet-blue. Very fragrant. 15c each; **3 for 25c; doz., 90c, postpaid.**

**MADAME CHEREAU**—Pure white with a broad border of clear blue; frilled petals. **3 for 25c; doz., 90c, postpaid.**

**MONSIGNOR**—Rich satiny violet and purple crimson. **3 for 25c; doz., 90c, postpaid.**

**MOTHER OF PEARL**—A wonderful new Iris. A self color with all the soft, iridescent colors of Mother of Pearl. Very tall. **35c each; 3 for \$1.00, postpaid.**

**SHERWIN-WRIGHT**—Finest deep golden yellow. **3 for 25c; doz., 90c, postpaid.**

**MIXED IRIS**—Many varieties and colors; choice assortment. **6 for 40c; doz., 75c, postpaid.**

**LATHYRUS, Latifolius (Hardy Sweet Peas)**—Pink, white and red. Blooms from June to August. **3 plants, 50c; doz., \$1.75, postpaid.**

**LARKSPUR (Delphinium)**—One of the showiest and best perennials, useful as a background for low growing plants. Grows 3 to 5 feet tall, with spikes of rich blue flowers in June and July. If cut back and not allowed to go to seed, will flower again in fall. **3 plants, 50c; doz., \$1.75, postpaid.**

**BELLADONNA DELPHINIUM**—Magnificent, large spikes of the most delicate turquoise-blue. Excellent for cutting, as they combine well with other flowers. Produce as many as three crops during a season, June to October. Grow 4 to 5 feet high. Strong, field-grown plants. **3 plants, 50c; doz., \$1.75, postpaid.**

**BELLAMOSUM DELPHINIUM**—A very dark blue variety, excellent for planting in contrast with the lighter blue shade of the Belladonna. Strong, field-grown plants. **3 plants, 50c; doz., \$1.75, postpaid.**

**LILY-OF-THE-VALLEY**—Pure white dainty bell-shaped flowers in May and June. Fragrant. Field-grown clumps for out-door planting. **Each, 50c; 3 for \$1.25, postpaid.**

## Hardy Perennial Plants

### Pansies

We grow large quantities of Pansy plants from seed imported from the best Pansy specialists of Europe and at home, and if well cared for they will produce blooms of finest colors, from 2 to 3 inches across. In ordering Pansy plants, we would advise, where possible, that they be sent by express. Ready about April 1. 3 plants 25c; doz., 60c; per 100, \$4.00, postpaid.

### Hardy Phlox

For massing they are very effective. Their flowering season begins in July and if the past bloom spikes are removed, the blooming period may be prolonged until Fall. Very hardy, not particular as to soil, will thrive in partial shade.

**BRIDESMAID**—Clear white with red eye. 3 for 60c; doz., \$2.00, postpaid.

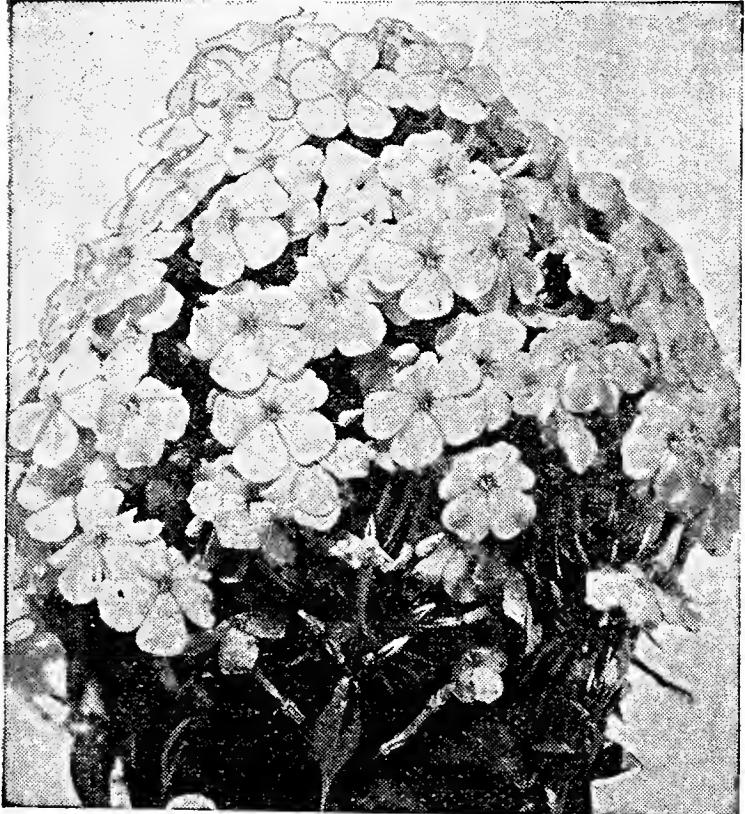
**BEACON**—Brilliant cherry-red. 3 feet. 3 for 60c; doz., \$2.00, postpaid.

**LOTHAIR**—Salmon-red, dark eye. Tall. 3 for 60c; doz., \$2.00, postpaid.

**R. P. STRUTHERS**—Bright red, crimson eye. 3 for 60c; doz., \$2.00, postpaid.

**SUNSET**—Fine light pink. 3 for 60c; doz., \$2.00, postpaid.

**MISS LINGARD**—Pure white; the earliest of all and bloom all Summer. 2 feet. 3 for 60c; doz., \$2.00, postpaid.



The following plants are available after April 20th. Price of any of the varieties listed: 60c per doz.; \$1.10 for 25; \$4.00 per 100, postpaid.

### Asters

To get good blooms Asters must be started early and transplanted. Our aster seed mixtures are so well balanced that there is bound to be a good selection of colors. Nothing can take their place as cut flowers from early summer until late fall. Plant several varieties:

**CREGO, MIXED**—Shaggy petals, full flowers, early blooming.

**GIANT BRANCHING, MIXED**—Large flowers with regular incurved petals.

**EARLY AMERICAN BEAUTY**—Should be started indoors.

**ALL VARIETIES MIXED**—A wonderful mixture of types and colors.

### Carnations

**NEW GIANT CHAUBAUD MIXED COLORS**—Flowers in beautiful shades of reds, pinks, yellow and white almost as large as the greenhouse ones.

### Larkspur

The perfect long stemmed cut flowers which also give bright color to the garden. Plants started early begin blooming in July and continue until frost if prevented from going to seed.

**TALL HYACINTH FLOWERED MIXED**—Flowers appear like double Hyacinths. Height, 4 feet. Mixed colors. Contains pinks, blues and white.

### Petunias

One of the most popular plants for porch boxes, baskets or borders. Plants started early begin blooming in June. Our plants are stocky and well hardened.

**HEAVENLY BLUE**—Bedding variety, a clear blue.

**ROSY MORN**—Bedding variety, a deep pink.

**BALCONY, MIXED COLORS**—Excellent for porch boxes.

### Hardy Phlox—Continued

**SIR EDWIN LANDSEER**—Fine deep crimson. 3 for 60c; doz., \$2.00, postpaid.

**CHAMPS ELYSEE**—Rich dark purple. 24 inches. 3 for 60c; doz., \$2.00, postpaid.

**MRS. C. DORR**—Beautiful lavender. 3 feet. 3 for 60c; doz., \$2.00, postpaid.

**RHEINLANDER**—Beautiful salmon-pink. 3 for 60c; doz., \$2.00, postpaid.

**MIXED**—Nice assortment and pleasing colors. 3 for 50c; doz., \$1.75, postpaid.

### Ranunculus (Buttercup)

The well known yellow Buttercup, effective either in the hardy border, or where used as a cut flower. The Repens is a creeping variety with double golden yellow flowers in May and June. Fine for the Rock Garden. **Select Plants**, 3 for 50c; doz., \$1.50, postpaid.

### Sedum

**SPECTABILE**—A useful and pretty plant for the perennial border, producing their heads of rose pink flowers during late summer and fall. Grows about 18 inches high, with broad, light green foliage and an abundance of showy flowers. Fine for the Rock Garden. **Select Plants**, 3 for 50c; doz., \$1.50, postpaid.

### Shasta Daisy

**ALASKA**—The very best of the Daisies and a variety which will stay in bloom all summer if the flowers are cut as soon as they fade. Color is pure white, and height about 18 inches. Our plants are grown from selected seed from flowers that are often 3 and 4 inches in diameter. Fine for the Rock Garden. **Select Plants**, 3 for 50c; doz., \$1.50, postpaid.

### Sunflower

These New Hardy Sunflowers are quite a novelty in the perennial Gardens. Large, very double, golden yellow flowers are in bloom in quantities in July and August and resembles a beautiful double yellow Dahlia in full bloom. Should be massed for finest effect. Grows 4 to 6 feet in height. **Select Plants**, 3 for 50c; doz., \$1.50, postpaid.

### Sweet William

(*Dianthus Barbatus*)

Beautiful, old fashioned plant which has long been a favorite border plant, and a treasured portion of the perennial gardens. Great masses of bloom of extremely rich and varied colors cover the plants for a long time. The flowers last well on the plant and when cut. **Select Plants**, 3 for 50c; doz., \$1.50, postpaid.

### Tritoma

**RED HOT POKER PLANT**—Blooms incessantly from August until November and surpasses the finest Cannas for attractiveness and brilliancy. Six to ten gorgeous flower stalks are in bloom at a time, each holding at a height of 3 feet a great cluster of flame colored flowers. Buckbee's New Hybrid varieties. **Select Plants**, 3 for 75c; doz., \$2.50, postpaid.

## Plants of Annual Flowers

For Flower Beds, Porch Boxes, Vases, etc.

The following plants are available after April 20th. Price of any of the varieties listed: 60c per doz.; \$1.10 for 25; \$4.00 per 100, postpaid.

### Scabiosa

**MIXED COLORS**—From seed sown early indoors these excellent cut-flowers begin to appear in July and continue to furnish blooms until frost.

### Snapdragons

**NEW GIANT, MIXED COLORS**—All the colors are included in this mixture and the plants are so well rooted that they will begin to grow as soon as they are reset.

### Stocks

**GIANT IMPERIAL, MIXED COLORS**—With their soft colors and old time garden odor. Stocks take first place among those flowers adapted for bedding work or cutting. For best results seed must be started indoors.

### Verbena

**COLOSSAL, MIXED COLORS**—Verbena spread rapidly over the ground making a mass of green from which the clusters of star-like flowers arise. No flower more satisfactory for bedding purposes.

### Zinnias

**GIANT DOUBLE DAHLIA FLOWERED**—The king of all annuals. This type bears flowers of enormous size, often measuring 6 to 8 inches across, in a gorgeous array of colors, resembling the Decorative Dahlia in form. **Mixed colors**.

### No. 19—Special Cut Flower Collection

This attractive offer is made especially for those people who want a wealth of cut flowers all summer but have little space in their gardens for many annuals and no facilities for starting plants indoors. 25 plants each of Larkspur, Scabiosa, Snapdragons and Stocks, Mixed Colors for \$4.00, postpaid.

## Hardy Everblooming Roses

Roses are ready for delivery March 1st

OUR BUSHES ARE ALL HARDY TWO-YEAR-OLD, FIELD GROWN STOCK

**CULTURE**—Roses grow best in an open and sunny position. Dig the soil thoroughly, working in well rotted manure or bone meal in a good quantity. Be careful in keeping the roots from exposure to the air. When the bushes arrive, sprinkle them and heel in until the hole is dug to receive them. Place the bush in position, spreading the roots and fill in with fine soil, making it firm with the heel. Cultivate freely during the Summer. An application of bone meal at monthly intervals is advisable. During the hot weather cover the bed with a layer of Peat Moss two inches thick. This will prevent the ground from drying out and becoming baked. In late November draw the soil around the plant to a height of 1 foot. This will serve as a Winter protection.

H. P. Denotes Hybrid Perpetual—blooming in June.

H. T. Denotes Hybrid Tea—blooming all Summer.

If roses are desired by parcel post, add 5c each for packing and postage.

**AMERICAN BEAUTY (H. P.)**—This grand flower is conceded to be the most beautiful rose in size, form and color, which is a rich red, passing to crimson; delicately veined and shaded; very fragrant. **Each 50c; 3 for \$1.25.**

**COLUMBIA (H. T.)**—A beautiful, true pink; deepening as it matures to a warm, glowing tone, which is enduring. Its usual double petalage and substance make it a good summer Rose, while the great size, color and long (almost thornless) stems mark it as a superior cutting variety. **Each 50c; 3 for \$1.25.**

**FRAU KARL DRUSCHKI (H. P.)**—A very vigorous grower. It has the hardiness of the oak. Its magnificent pure white flowers, without a tint of yellow, and its immense blooms, free flowering, make it an ideal rose. **Each 50c; 3 for \$1.25.**

**GENERAL JACQUEMINOT (H. P.)**—One of the most popular of the red roses; brilliant crimson, large and very effective, very fragrant and one of the hardiest. **Each 50c; 3 for \$1.25.**

**GENERAL McARTHUR (H. T.)**—One of the most fragrant roses grown. Flowers large, full of a bright scarlet color. **Each 50c; 3 for \$1.25.**

**GRUS AN TEPLITZ (H. T.)**—(Greeting to Teplitz.)—Hardy in all sections; grows freely to height of four to five feet; vivid, dazzling, fiery crimson; sweetly fragrant. **Each 50c; 3 for \$1.25.**

**KILLARNEY (H. T.)**—Long pointed buds opening to flat flowers of sparkling pink. Free bloomer. **Each 50c; 3 for \$1.25.**

**LOS ANGELES (H. T.)**—A luminous flame-pink, overlaid with translucent golden yellow deep at the base. A long-pointed bud opening to a most perfect flower of indescribable beauty, with full, reflexed petals. **Each 50c; 3 for \$1.25.**



Frau Karl Druschki

**MME. CAROLINE TESTOUT (H. T.)**—Large globular flowers of a delightful shade of satiny rose. Strong grower and persistent bloomer. **Each 50c; 3 for \$1.25.**

**OPHELIA (H. T.)**—One of the most beautiful and popular of recent cut-flower favorites; with perfect flowers of distinct form, lavishly produced, emitting the exquisite perfume of the Richmond type; white tinted salmon flesh and shaded with rose, a strong glow of yellow at base. **Each 50c; 3 for \$1.25.**

**PINK RADIANCE (H. T.)**—Extra hardy, vigorous and prolific; one of the best all-round Garden Roses. Its color is a beautiful blending of carmine-rose with shades of opal and copper. **Each 50c; 3 for \$1.25.**

**RED RADIANCE (H. T.)**—The globular, heavy-stemmed "Radiance" duplicated in all respects except color; this sport form being a brilliant crimson. **Each 50c; 3 for \$1.25.**

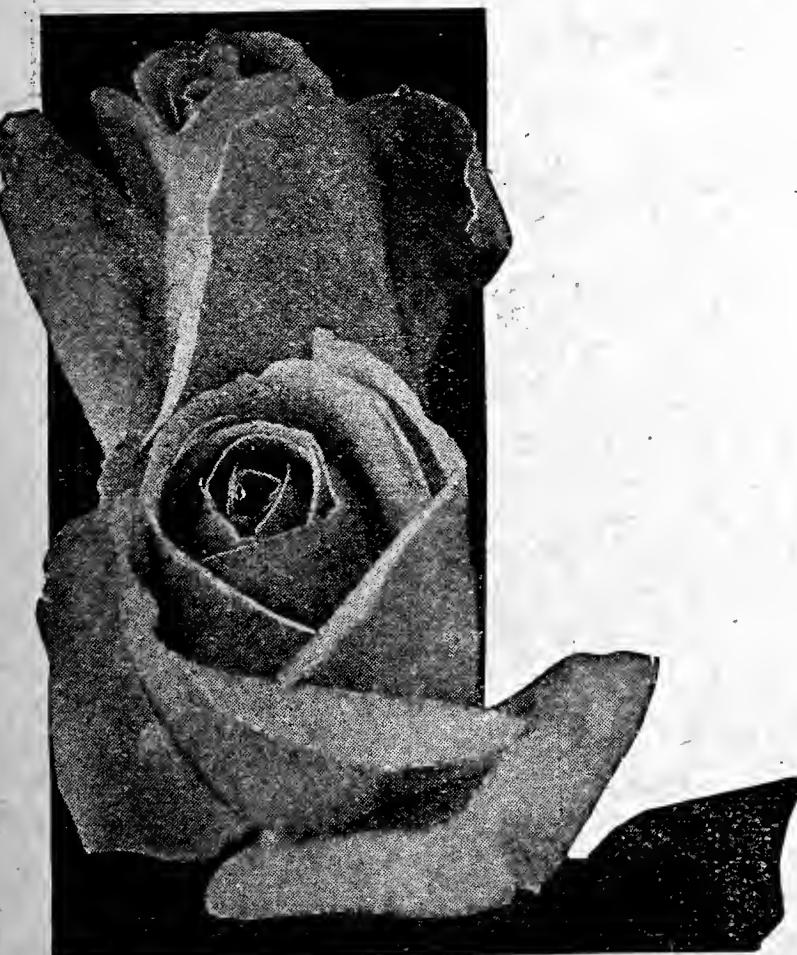
**SUNBURST (H. T.)**—Plant a bed of Sunburst and you will have cut flowers all summer. Always in bloom. Very select, with long spiral buds. A lovely, bronzy-yellow, fading to apricot. Probably the best of the yellow roses. The plant is strong, of somewhat spreading habit, with few thorns. **Each 50c; 3 for \$1.25.**

**SOUVENIR DE CLAUDIUS PERNET (H. T.)**—The most satisfactory yellow rose ever produced. A decided and comparatively unfading sun-flower yellow even deeper toned at center. Its flower form is large and full with elongated petals; the buds long and pointed. In growth it is vigorous, erect and branching, with brilliant foliage and almost thornless stems. **Each 50c; 3 for \$1.25.**

**WHITE KILLARNEY (Double)**—This is the best known of Dickson's famous Irish Hybrid-Tea Roses, and is one of the most popular of our garden roses. In color it is clear white, whiter than any other rose, the fragrant blooms are large, the buds long and pointed, the petals very large and of great substance, blooms continuously from June until frost. **Each 50c; 3 for \$1.25.**

### The Talisman Rose

An exquisite new creation in Hybrid Teas. The bud is long and perfectly formed. Of very robust habit with glossy green foliage. The petals on the outside are a combination of yellow, gold and pink and as the flower opens up the inside becomes a perfect blending of apricot, old gold and old rose. Truly a wonderful rose. **Extra strong, 2-year-old, field grown plants, specially priced at 75c each; 3 for \$2.00.**



Los Angeles



**DOROTHY PERKINS**—Double, shell-pink flowers in clusters; vigorous and dependable. Strong, field-grown, 2-yr.-old plants, 35c each; 3 for \$1.00.

If roses are desired by parcel post, add 5c each for packing and postage.

## Hardy Climbing Vines

A home-planting is seldom complete without at least a few ornamental vines. They add a certain charm and grace not obtained from any other source. Vines keep the home cool in the summer and furnish protection and shade to the porch, arbor, and pergola. If planted next to walls, dig the soil out for a depth of 18 to 24 inches and fill in with good dirt. In such locations they are likely to need watering and fertilizing with bone-meal or well rotted manure.

### IVY

**AMERICAN IVY**—(*Virginia Creeper*). A very rapid growing vine covered with large, heavy leaves affording shade; of great beauty when changing to scarlet in Autumn. The best climber to grow over porches, rocks, fences or tree stumps. Very hardy. 20c each; 3 for 50c: Postpaid.

**BOSTON IVY**—(*Ampelopsis Veitchii*). Leaves small and dainty, ivy-like in form. By overlapping each other they form a dense sheet of green. The plant requires a little protection the first Winter until it is established. Foliage brilliant orange and red in Autumn. One of the best clinging vines—it will climb almost any wall and makes a beautiful covering. 35c each; 3 for \$1.00: Postpaid.

**ENGELMANN'S IVY**—(*Ampelopsis Engelmanni*). A rapid growing vine of the Virginia Creeper family, but having characteristics of its own. Leaves are smaller and many more of them than those of the Creeper. Foliage of deep green which changes to a beautiful scarlet in the Fall. Will cling only to very rough surfaces such as pebble-dash, rough brick or stone, or will climb over a trellis or wire frame. We planted this Ivy around our new two-story office building, and they climbed nearly to the roof the first season. 20c each; 3 for 50c: Postpaid.

**SILVER LACE VINE**—The plant is of strong, vigorous growth, attaining a height of 25 feet or more, producing through the summer and fall great foamy sprays of white flowers that turn rose-colored as they begin to fade, and the combination of white and rose makes an exceedingly pretty picture. Each, 60c; 3 for \$1.50: Postpaid.

### CLEMATIS

Of all the vines for either shade or decoration, none can compare with the Clematis. For successful growth the Clematis requires more care than the ordinary vines. Plant in rich clay soil, mounded so that the water will not stand about the plant. Water heavily before and during bloom. Cut worms may be avoided by wood ashes or a tin can with bottom cut out forced down over the plant and root.

**JACKMANI**—Very profuse blooming with flowers from 4 to 6 inches in diameter, of an intense violet-purple; borne in continuous masses on the summer shoots. Best sort for general planting. Each, 75c; 3 for \$2.00: Postpaid.

**PANICULATA**—A great novelty. One of the most desirable, useful and beautiful hardy garden vines; a luxuriant grower, profuse bloomer with fine foliage. Flowers white, rather small, very pretty and fragrant, but produced in the greatest profusion in the summer. Each, 35c; 3 for \$1.00: Postpaid.

## Hardy Climbing and Rambler Roses

The Climbers or Ramblers not only afford a burst of bloom upon trellises, over fences and hedges, against the porch or the home, but having attractive foliage they are an object of beauty and ornament even when not in bloom.

**EXCELSA (Red Dorothy Perkins)**. Fine, crimson-scarlet. Flowers are borne in large clusters. Vigorous grower, good healthy foliage; one of the best climbing Roses.

Extra strong, 2-year plants, 35c each; 3 for \$1.00.

**GARDENIA**—The buds are bright yellow, the flowers creamy with yellow centers; early, in small sprays; fragrant. Field-grown, 2-yr. plants, 40c each; 3 for \$1.10.

**PAULS SCARLET CLIMBER**—Bright, vivid scarlet double flowers in clusters of three to six. No other rose can compare with it in brilliancy of color. Field-grown, 2-yr. plants, 40c each; 3 for \$1.10.

**SILVER MOON**—Large, silvery white, with yellow stamens. Foliage glossy, dark green; very vigorous grower. Field-grown, 2-yr. plants, 35c each; 3 for \$1.00.

**TAUSENDSCHEIN (Thousand Beauties)**—Varies in color. A beautiful combination of colors, including several shades of pink. Semi-double. Strong, field-grown, 2-yr. plants, 35c each; 3 for \$1.00.

**VEILCHENBLAU (Blue Rambler)**—Double flowers of light lilac, fading to light purple and blue. Field-grown, 2-yr. plants, 40c each; 3 for \$1.10.

**DR. VAN FLEET**—Pure apple-blossom-pink flowers, good for cutting. A very profuse bloomer. Field-grown, 2-yr. plants, 40c each; 3 for \$1.10.

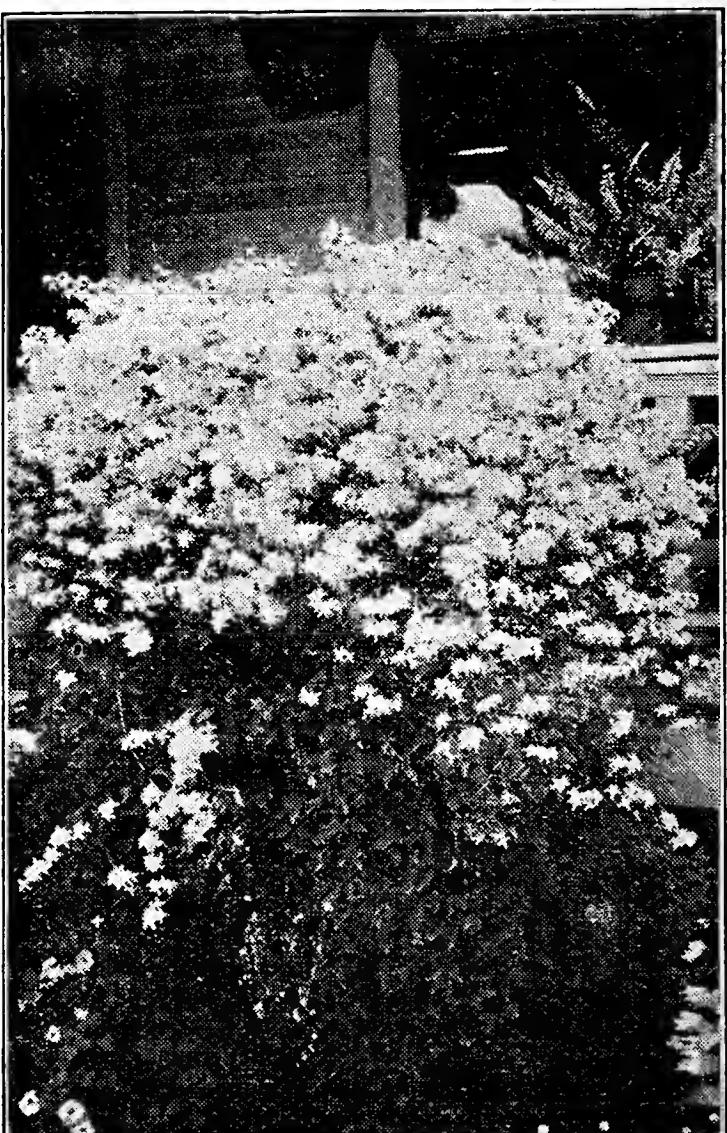
**CLIMBING AMERICAN BEAUTY**—Rose crimson flowers in profusion suitable for cutting. A vigorous grower, very free from attacks of insects and disease. Older canes should be pruned out each year. Field-grown, 2-yr. plants, 40c each; 3 for \$1.10.

**CRIMSON RAMBLER**—Unusually vigorous. Produces a great profusion of medium size, double red blossoms. 2-yr.-old, strong plants, 35c each; 3 for \$1.00.

### HONEYSUCKLES

**HALL'S JAPONICA HALLIANA**—Shiny green foliage; pure white, trumpet-shaped flowers with sweet perfume; used to cover fences, embankments, arbors, etc. Blooms in late fall. Hardy. Thrives in heavy soil. Endures shade. Each, 35c; 3 for \$1.00: Postpaid.

**SCARLET TRUMPET**—Bright red trumpet-shaped flowers. Blooms very freely the entire season. Each, 35c; 3 for \$1.00: Postpaid.



Clematis Paniculata

## Flowering and Ornamental Shrubs

Greatly in demand for specimen use on lawns, for hedges, and for making permanent background effects. Even the smallest city lot has room for selected shrubs which grow in beauty and usefulness from year to year with the least possible care, steadily improving the appearance of the property. Suburban home-owners require great quantities of them to frame their gardens and to secure quick-home-like effects upon new properties. They are easy to handle and endure neglect with less damage than any other plants.

The stock we offer is all field grown, well rooted, usually too large for mailing. Express is the best, but if it must be mailed they can be trimmed back; add 5c for each shrub for postage, no charge for packing. **Purchaser pays the transportation.**

**ALMOND FLOWERING**—Grows 3 to 6 feet tall. In late April the branches are covered with beautiful double pink flowers before the leaves appear. Strong bushes 2 to 3 feet. **Each, 65c; 3 for \$1.75.**

**ALTHEA (Rose of Sharon)**—Are fine, free-growing flowering shrubs of very easy cultivation. Desirable on account of flowering in August and September, when nearly every other shrub or tree is out of bloom. They are of good size, many colored, attractive. Perfectly hardy and can be had in various colors if desired. Entirely free from all insect pests; always give delight and satisfaction. 2 to 3 feet. **Each, 50c; 3 for \$1.25.**

**BARBERRY—Thunbergii—(From Japan)**—A very pretty species of dwarf habit, small foliage, changing to a beautiful coppery red in autumn. Valuable as an ornamental hedge. 24 inches. **Each, 25c; 3 for 65c; 100 for \$25.00.**

**BARBERRY, RED-LEAVED**—The showiest, most attractive shrub of all with its glowing red foliage. It is perfectly hardy, absolutely rust-proof. Has the same graceful foliage as the Japanese and does best in sunlight. Supply limited. **Price: 2-yr., field-grown plants, each, 50c; 3 for \$1.25.**

**BUTTERFLY BUSH (SUMMER LILAC)**—Long spikes of fragrant lavender flowers from July until frost. Attracts butterflies in abundance. Grows 3 to 4 feet high. Strong No. 1 plants. **Each, 35c; 3 for \$1.00.**

**BEAUTY BUSH**—Handsome new shrub from China and Central Asia. Long arching branches, covered in the spring with clusters of small, tubular pink flowers of honeysuckle type; 6 to 9 feet high. Strong bushes. **Each, 65c; 3 for \$1.75.**

**RED SIBERIAN DOGWOOD**—Free-growing, 6 to 10 ft. tall and very hardy. Bears a profusion of whitish blue berries in early Fall, making them distinctly ornamental after the white flowers are gone. The stems are red, which makes it a valuable plant for Winter effect. They grow well in shady locations. Attains height of from 6 to 10 ft. **Each, 35c; 3 for \$1.00.**

**HONEYSUCKLE (Pink Tartarian)**—The Bush Honeysuckles are hardy, fast-growing, have fine foliage and are useful in mass plantings. They endure partial shade. Attractive pink flowers are followed by bright red berries. Strong bushes, 2 to 3 feet. **Each, 40c; 3 for \$1.10.**

**HYDRANGEA (Paniculata Grandiflora)**—Produce massive white flowers, then pink, afterwards are reddish-bronze and green, from August till autumn; 2 to 3 feet. The blossoms may be cut and used for winter dry flowers. Plant in shade. **Each, 50c; 3 for \$1.25.**

**JAPAN QUINCE (Cydonia Japonica)**—Very early in spring this fine old shrub is completely covered with dazzling scarlet flowers; followed by small, quince-shaped fruits, which are quite fragrant. Growth bushy with protecting thorns. 15 to 18 inches. **Each, 50c.**



**LILAC (Common)**—The popular extra hardy old favorite. Furnished in purple and white. **Either, each, 35c; 3 for \$1.00.**

**LILAC (Persian)**—Habit more open and branches more slender and drooping than the Common Lilac. Flowers light purple; 2 to 3 feet. **Each, 40c; 3 for \$1.10.**

**MOCK ORANGE**—This variety of the Syringa is perfectly hardy, grows fully 8 feet and produces creamy-white, sweet-scented flowers in abundance. Splendid for background. Two to 3 feet. **Each, 40c; 3 for \$1.10.**

**PRIVET (Amoor River)**—The privets are all well adapted for planting as ornamental hedges. Hardy, growing well in almost any kind of soil. The Chinese variety, growing upright to a height of 15 feet. Hardier than the other varieties. Dark green leaves, which remain on most of the winter. Bears panicles of white flowers in June and July, followed by black berries. The best for hedge planting, and most desirable for this section.

**12- to 18-inch, 10, \$1.00; 100, \$8.00.**

**18- to 24-inch, 10, \$1.50; 100, \$12.00.**

**SPIREA (Anthony Waterer)**—Dwarf, bushy, of spreading type and fairly covered in July with large corymbs of rosy crimson flowers. If these are removed as they fade the bush will bloom at intervals until frost. **Each, 40c; 3 for \$1.10.**

**SPIREA, S. van Houttei (Van Houttei)**—Commonly known as Bridal Wreath. One of the most beautiful Spireas, with pure white flowers in clusters or panicles about an inch in diameter. Profuse in bloom; remarkably vigorous and hardy. Makes one of the best shrub hedges. **Each, 25c; 3 for 65c. Extra fancy grade, 35c each; 3 for \$1.00; 12 for \$3.00.**

**SNOWBALL (Old-Fashioned Snowball)**—A well-known favorite shrub, with globular clusters of white flowers the latter part of May. Grows 8 to 10 feet high. Strong bushes, 2 to 3 feet. **Each, 35c; 3 for \$1.00.**

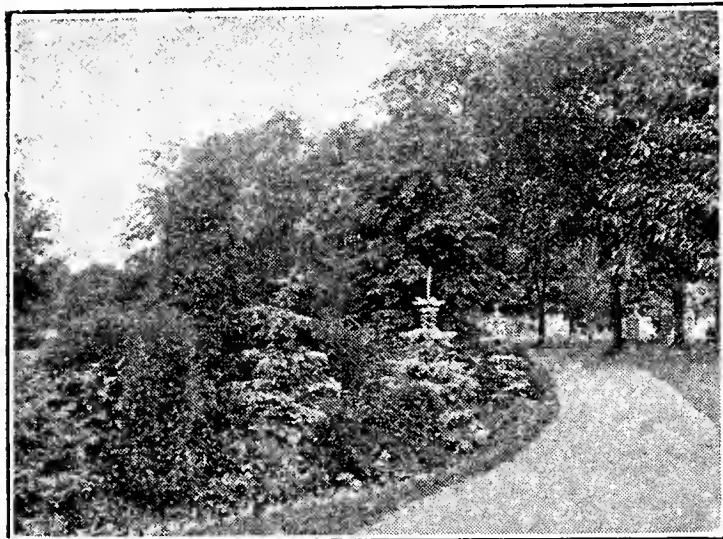
**SNOWBERRY (Waxberry)**—A good native shrub with attractive white berries in autumn and early winter. Two to 3 feet. **Each, 35c; 3 for \$1.00.**

**SUMAC, GLABRA LACINIATA (Cut-Leaved)**—One of the best species for mass or other planting on account of its deeply cut, beautiful fern-like leaves, which are dark green above and white beneath, crimson fruits and rich autumnal coloring. Two to 2 1/2 feet. **Each, 40c; 3 for \$1.10.**

**TAMARIX AFRICANA (Tamarisk)**—Strong, slender, tall-growing irregular shrubs, with feathery foliage and small, delicate flowers borne profusely on gracefully-bending branches. These pink flowers are very attractive during May. **Each, 40c; 3 for \$1.10.**



# Ornamental and Shade Trees



## Ash Mountain European

(*Sorbus Aucuparia*)

Hardy tree, 20 to 40 ft. tall, not particular as to soil, well suited to rocky hillsides. Handsome foliage turning to orange-red in fall. White flowers in May are followed by red fruits which hang on all winter. **Each, \$1.00; 3 for \$2.75, not postpaid.**

## Birch, Cut-Leaved Weeping

Its tall, slender, yet vigorous growth, graceful drooping habit, silvery white bark and delicately cut foliage present a combination of attractive characteristics rarely met with in a single tree. Very popular for single lawn specimens or groups of three or four trees; the white bark of trunk and twigs gleaming conspicuously among the darker greens and browns. **Each, \$2.50, not postpaid.**

## Catalpa Speciosa

A variety which is said to have originated in the West; it is very hardy and a rapid grower and is being extensively planted for commercial purposes; has broad, deep green leaves and beautiful large blossoms, making it a highly ornamental tree for lawn or street. Valuable for planting in groves for growing poles, posts and railroad ties. **Each, 50c; 3 for \$1.25, not postpaid.**

## Chinese Elm

(*Ulmus Parvifolia*)

A very fast grower, enduring drought and extremes of temperature, very free from diseases and insect injury. Leaves out early in spring and sheds them late in fall. Leaves smaller, branches more slender than American Elm. **6 to 8 feet, each, 75c; 3 for \$2.00. 8 to 10 feet, each, \$1.00; 3 for \$2.50, not postpaid.**

## Bechtel Double Flowering Crab

(*Malus loensis*)

Grows 8 to 15 ft. Large, double, pink flowers resembling roses and very fragrant, in late May. Easily started—do not suffer from drought. Thrive and flower profusely. **Each, \$1.25; 3 for \$3.00, not postpaid.**

## Silver Leaved or Soft Maple

(*Acer dasycarpum*)

A rapid growing tree of large size, irregularly rounded form; foliage bright green above and silver beneath; a favorite street and park tree. **Each, 50c; 3 for \$1.25, not postpaid.**

## Purple Leaved Flowering Plum

A distinct and handsome little tree, rarely over 20 feet high. Foliage maroon-red that deepens in color as the season advances. Covered with a mass of small white flowers in spring. Very handsome from early spring to late fall. A beautiful ornament to the lawn; fine for color massing or as a single specimen. **Each, 75c; 3 for \$2.00, not postpaid.**

Trees help to make our outdoor living rooms for leisure or play. They are needed as backgrounds and to frame the house. They add to our pleasure with beauty of form, foliage, flower and fruit, as specimens, in groups and in combination with shrubbery.

As backgrounds they are placed well back of the house line. To frame the house they are planted at both ends forward of the front line of the house. Along straight drives they are set not less than 35 ft. apart, alternately, and 5 to 10 ft. from the edge of the driveway. Along curved roads or paths they should be in groups rather than in lines.

## Poplars

**BOLLEANA**—One of the most striking in appearance of any of the narrow type trees. It is the same type tree as the popular Lombardy, but the leaves are very similar to the Silver Maple, having a glossy green color on the top side of the leaf while the underneath side is a silver color. The bark is a smooth, light green. This tree must not be confused with the Silver Poplar which has become such a pest in various parts of the country. **Each, 75c; 3 for \$2.00, not postpaid.**

**CAROLINA**—A most rapid grower; succeeds everywhere. Bright green glossy foliage; pyramidal in shape, but makes a fine spreading head if cut back the first few seasons. **Each, 50c; 3 for \$1.25, not postpaid.**

**LOMBARDY**—The selective appreciation of trained landscape builders is getting this fine type into much more general use. Old trees which were thoughtfully placed, are outstanding landmarks today; their great height, dense, slenderness, and sombre silhouette against the skyline, creating an impressive, picturesque old-world effect. **Each, 75c; 3 for \$2.00, not postpaid.**

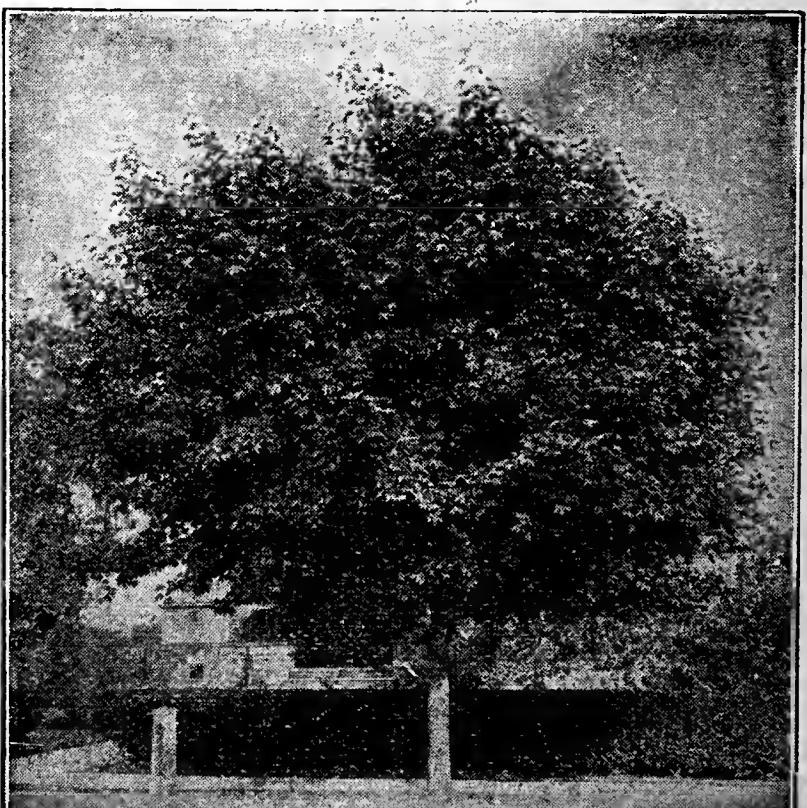
## Wisconsin Weeping Willow

(*Salix babylonica, var. dolorosa*)

Of drooping habit and considered the hardiest; valuable on account of its ability to resist severe cold. **Each, \$1.00; 3 for \$2.75, not postpaid.**

## Niobe - Golden Weeping Willow

The best Willow for shade and ornamental purposes. It has long slender branches that droop very gracefully. Its leaves are long and narrow, green above and silver on the underneath side. Grows to be quite a large tree. Has a very striking winter effect with its many drooping golden barked branches. **Each \$1.00; 3 for \$2.75, not postpaid.**



## Grapes

Everyone should have a few grape vines in the home garden. They require very little cultivation and the returns are so abundant. They can be trained over fences, trellises or doorways and thus be ornamental as well as useful. To grow for market, they can be planted on hillsides that are unsuitable for other crops. They should in all cases have a free exposure to the sun and air. Strong 2-year-old plants.

**BRIGHTON**—Bunch large, shouldered; berries medium to large, round, dark red, tender, very little pulp, sweet, juicy, slightly aromatic and very good. Ripens early. **Each, 20c; 6 for \$1.00, postpaid.**

**NIAGARA**—Occupies the same position among the white varieties as Concord among the black. Bunch and berries large, greenish white, changing to pale yellow when fully ripe. Skin thin but tough; quality much like the Concord. **Each, 20c; 6 for \$1.00, postpaid.**

**CONCORD**—One of the most popular and reliable varieties we possess. Bunch large, compact and shouldered; berry large, round, almost black with blue bloom; juicy, buttery and very sweet. **Each, 20c; 6 for \$1.00, postpaid.**

**MOORE'S EARLY**—A large grape, ripening a week earlier than Concord; good grower; berries large, good quality, and makes a moderate yield; very valuable as an early grape. **Each, 20c; 6 for \$1.00, postpaid.**

### No. 20—Grape Collection

Two extra strong 2-year-old plants each of Brighton, Niagara, Concord, Moore's Early (8 in all, value, \$1.60). Sent prepaid for only \$1.25.

## Raspberries

**LATHAM RASPBERRY (The Giant Red Raspberry)**—By far the best raspberry to be had and stands unsurpassed for vigor and hardiness, size and handsome appearance of berries. Has made the remarkable yield of 5430 qts. per acre. Hardy even as far North as Canada. The ability of Latham to yield so heavily, together with the large size and fine appearance of the berries make it unquestionably the most profitable variety for either the home or market garden. Many plants will bear fruit the first year they are set out. **Price of strong disease-free plants: 6 for 50c; 12 for 90c; 25 for \$1.50; 100 for \$4.50, postpaid.**

**ST. REGIS EVERBEARING RASPBERRY (Bears from July to October)**—A wonderful raspberry that will give you a fine crop of berries from July until hard frosts in the fall; will produce a nice crop the first season if planted in good soil. Berries are bright crimson in color, large size, firm and sweet. Canes are vigorous growers and well covered with heavy green foliage. St. Regis is a heavy bearer in the regular berry season and besides will give you a crop in the fall when fresh berries are always welcome. **Price of strong disease-free plants: 6 for 50c; 12 for 90c; 25 for \$1.50; 100 for \$4.50, postpaid.**

**KANSAS (Black) (Early to Midseason)**—Large, firm, sweet, well-flavored berries and strong, prolific canes, resistant to drought. **6 for 50c; 12 for 90c; 100 for \$4.50, postpaid.**

## Blackberries

**EARLY HARVEST**—One of the earliest. Berry medium sized, good quality and very prolific; firm and attractive in appearance. A good market sort. **Each, 10c; 10 for 65c; 100 for \$5.00, postpaid.**

**SNYDER**—The hardiest Blackberry known; fruit medium sized and of great quality; a standard market variety. **Each, 10c; 10 for 65c; 100 for \$5.00, postpaid.**

### No. 21—Perfegro Small Fruit Collection

6 Red Raspberry, St. Regis; 4 Grape, Concord; 6 Blackberry, Early Harvest; 3 Gooseberry, Downing; 3 Currants, Red Cherry; 25 Strawberry, Hood River. Regular price, \$3.50. Sent postpaid for \$3.00.

## Everbearing Strawberries

For best results, plants should be disbudded up to July 1 after the main June crop is past. They will then bear crops beginning early in August and continue until frost.



Mastodon Everbearer

### The Giant Everbearing Strawberry

Produces Large Luscious Berries 90 Days After Planting.

Will Produce Three Crops of Berries in 18 Months

This astonishing new everbearing strawberry is a great advance over all other everbearing varieties. It produces large, deep-rooted plants that bear great quantities of the large luscious berries. Just plant them in any good garden soil this spring, keep the blossoms picked off until early in July. The plants are then well rooted and will soon bear big, red, delicious berries until severe cold weather. Then the next spring Mastodon bears as heavy a crop as any spring variety and after a six weeks' rest, starts in again and bears all summer and fall. **We have the genuine true stock but advise early orders. 25 for 90c; 50 for \$1.50; 100 for \$2.50, postpaid.**

## Strawberries

### June-Bearing

Strawberries will grow in any climate and thrive in most any soil, provided it is not low and sour. They should be in every garden.

**SENATOR DUNLAP**—Beautiful dark red fruits shading to deep scarlet. Senator Dunlap has been for many years one of the most popular Strawberries for the table and for canning. Of good size and sweet flavor. **25 for 35c; 100 for 85c; postpaid.**

**AROMA**—Late, perfect. Berries very large, bright red to the center, rich, delicately aromatic, firm; a good shipper.

Above two varieties planted side by side will make your season for ripe strawberries much longer. **25 for 40c; 100 for \$1.00; postpaid.**

**HOOD RIVER**—A fine-yielding, long-keeping variety. The meat is dark red, instead of pink or white, and is valuable on that account. Housewives will pay a premium for the Hood River berry because it makes such superior preserves. **25 for 35c; 100 for 85c, postpaid.**

**FREMONT WILLIAMS**—A new variety, destined to be very popular both on account of its heavy yield and keeping qualities. A very fine mid-season variety, and valuable to all western growers. **25 for 40c; 100 for \$1.00, postpaid.**

## Currants

They succeed well in a cool, moist soil, and should be planted about 4 feet apart and well cultivated.

**RED CHERRY**—Large berries on short clusters; a robust, fruitful sort. The vigorous, stocky bushes produce great quantities of bright red fruit with thin skins and remarkably fine flavor. **3 for 60c; 10 for \$1.75, postpaid.**

**PERFECTION**—Beautiful, bright red, holding its large size to end of bunch; easy to pick; a superior bearer, less acid and of better quality than any other large currant in cultivation. **3 for 65c; 10 for \$2.00, postpaid.**

## Cherries

Cherries do exceptionally well in practically every location in the Central West, coming into bearing the second year and continuing until they literally bear themselves to death, making it one of the most profitable of fruits. Set the trees 18 to 20 feet apart each way.



Early Richmond Cherry

### Early Richmond—

This is an old standard variety with dark red, medium size, rich acid, juicy fruit.

### Compass Cherry Plum—

A cross between the Sand Cherry and Miner Plum. It is absolutely hardy, early and prolific. Fruit large, dark red wine color.

**PRICES**—Large 4 to 6 foot 2-year old trees, by express, not postpaid, at: Each, 60c; 3 for \$1.65; 10 for \$5.00. Assorted if desired.

**English Morello**—Large size, blackish red, acid fruit. This variety is destined to be our most popular market variety. Ripens in August.

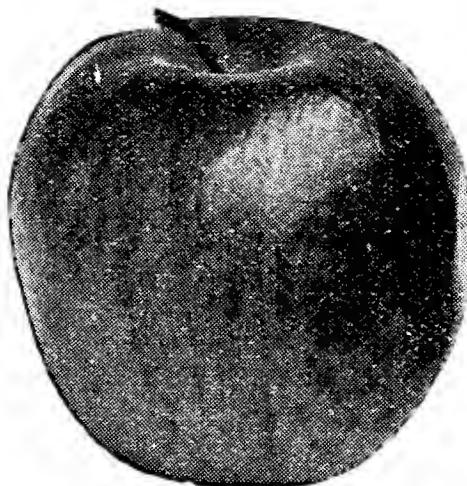
**Sweet Cherry**—(Black Tartarian) Very large, bright purplish black cherry; flesh very rich, delicious, thick, juicy, of purplish color. Very vigorous erect grower and an immense bearer.

**Large Montmorency**—A popular market variety good for all purposes. Vigorous grower; very productive. Fruits large, red acid.

**Wragg**—Claimed to be much hardier than English Morello, which it closely resembles. Very hardy, vigorous and productive. Fruit dark purple, very fine. Ripens in August.

**PRICES**—Large 4 to 6 foot 2-year old trees, by express, not postpaid, at: Each, 60c; 3 for \$1.65; 10 for \$5.00. Assorted if desired.

## Apples



Delicious Apple

The apple, if given the same care and attention as other farm crops, will yield greater. The following list we consider to be the best for general planting. The stock we offer is hardy, 4 to 5 foot, 2-year old trees.

**YELLOW TRANSPARENT**—Large, uniform, yellowish white apples with moderately firm, juicy flesh.

**DELICIOUS**—Fruit large, nearly covered with brilliant dark red, flesh fine grained, crisp and melting, juicy with a delightful aroma; of very

highest quality. A splendid keeper and shipper. A regular annual bearer.

**WEALTHY**—Few varieties that are at once so hardy and so productive yield fruit of such good quality—white-fleshed, juicy and vinous; of medium size, smooth, round and deep red.

**JONATHAN**—Medium, brilliant red and yellow; tender, juicy, rich. Fine-grained.

**GRIME'S GOLDEN**—Large, golden yellow, juicy, aromatic, sub-acid. Fine dessert apple.

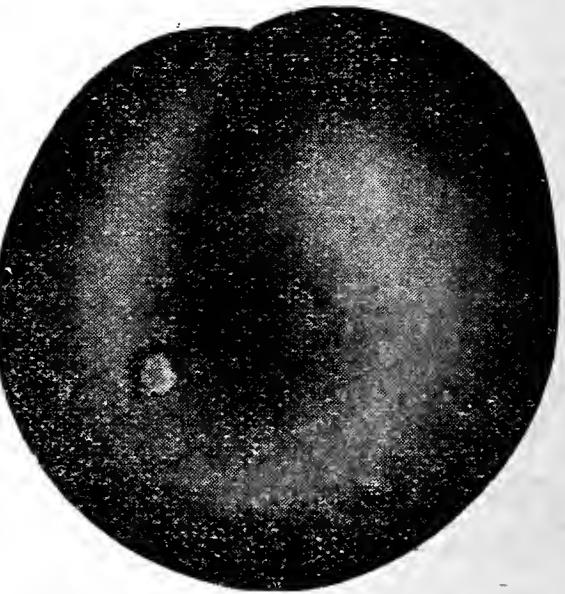
**RED SIBERIAN (Crab Apple)**—Fruits small; about an inch in diameter. Grows in clusters; bears young and abundantly. Ripens in August and September. **By Express, not prepaid**: Each, 60c; 3 for \$1.65; 10 for \$5.00. Assorted if desired.

## Plums

**LOMBARD**—Fruits violet red, roundish oval. Juicy and pleasant. A valuable market variety. Very hardy and adapted to light soils.

**GREEN GAGE**—Skin greenish - yellow, flesh pale green, juicy and exceedingly rich. One of the best for canning purposes. Freestone.

**BURBANK**—Skin dark red over a yellow ground; juicy, sweet. Good shipper; ripens in late August. Large.



Lombard Plums

**GERMAN PRUNE**—Purplish-black, medium juicy, large. Good market variety; one of the most popular for canning, because of its sweetness.

**OMAHA**—Medium size, dark red, of good quality; very hardy and heavy bearer under all conditions and ripens early. One of the most popular plums.

**WILD GOOSE**—Fruit large, purple skin, with sweet juicy flesh; tree very vigorous grower. Ripens last of July. **By Express, not prepaid**: Each, 60c; 3 for \$1.65; 10 for \$5.00. Assorted if desired.

### Pears

#### Dwarf Pears

**DWARF BARTLETT**—An old favorite, highly esteemed for its large, fine-grained, buttery, juicy fruit. Skin is thin and smooth, clear yellow with a faint blush on the sunny side. Ripens in August and September.

**SECKEL**—Very productive, fruit rich yellowish brown, one of the best. Ripens in September. **By Express, not prepaid**: Each, 60c; 3 for \$1.65; 10 for \$5.00. Assorted if desired.

## Dewberries

**LUCRETIA**—The Dewberry is a dwarf and trailing form of the Blackberry. The fruit is highly prized as a market fruit owing to its large size and fine quality. Set the plants 2 feet apart in the row and cover in winter with coarse litter. Should be mulched in the spring to keep them off the ground. Perfectly hardy and remarkably productive; said to be the best of this class of fruit; ripens early, is often 1 1/2 inches long by 1 inch in diameter, sweet, luscious and melting. This variety is recommended most highly. **3 for 25c; 10 for 65c; 100 for \$5.00, postpaid**.

### The Little Home Orchard



Small Space — Little Cost  
—Big Results

All trees 4 to 5 feet.

1 Apple .....	\$0.60
1 Dwarf Pear.....	.60
1 Sour Cherry.....	.60
1 Crab Apple.....	.60
1 Plum .....	.60
Catalog price.....	\$3.00

Our Bargain Price for the 5 trees. By express  
not prepaid .....

.....\$2.50

## Gooseberries

The Gooseberry requires a deep soil, well manured, and, if inclined to be dry, should be mulched to retain the moisture. The bushes should be thoroughly trimmed and pruned to obtain large, fine fruit.

**DOWNING**—Fruit large, round, light green with distinct veins, soft, juicy and fine flavored; vigorous and productive; smooth skin; one of the best. **3 for 60c; 10 for \$1.75, postpaid**.

**HOUGHTON**—Medium size, pale red, sweet and juicy; vigorous grower, abundant bearer and free from mildew. Considered by many the best paying sort in cultivation. **3 for 60c; 10 for \$1.75, postpaid**.

# Fancy Grasses for the Lawn

## For Best Results, Best Seeds Must Be Sown

There is nothing that will improve the appearance of your home so much as a well-kept lawn with a flower bed or two and a liberal planting of shrubs along the borders. To have a good lawn it is necessary that you get your soil in fine condition, that you sow a sufficient quantity of good seed, and that you take care of the grass after you have a stand.

Our Lawn Seed has all been thoroughly cleaned, is of high purity and germination. Sow at the rate of 1 pound to 150 to 200 square feet.

When making a new lawn, be sure that the soil is well drained and that a sufficient amount of fertilizer has been incorporated in the soil, using a fertilizer rich in plant food.

As a top dressing, use pulverized sheep manure or a highly concentrated commercial fertilizer, avoiding barnyard manure, which is not only unsightly, but contains large quantities of weed seed as well.

### PERFEGRO LAWN MIXTURE

A beautiful, smooth, low-growing, dark velvety, green grass for the lawn or yard. This mixture has given universal satisfaction in the past. It is composed of the very best grade of Kentucky Blue Grass and White Clover, together with other fibrous-rooted grasses mixed in right proportion to form a rich, velvety lawn which will remain green throughout the entire season. Sure to give satisfaction. **Postpaid: Lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.50.**

### SHADY SPOT LAWN MIXTURE

On many lawns there are unsightly bare spots under trees and between adjoining buildings, where it is impossible to get the ordinary lawn grass to grow. For such places this mixture is adapted. It is composed of grasses which naturally grow in shady places. They are the finest and most costly of all grasses. **Postpaid: Lb., 45c; 5 lbs., \$2.10; 10 lbs., \$4.00.**

### QUICK GROW LAWN MIXTURE

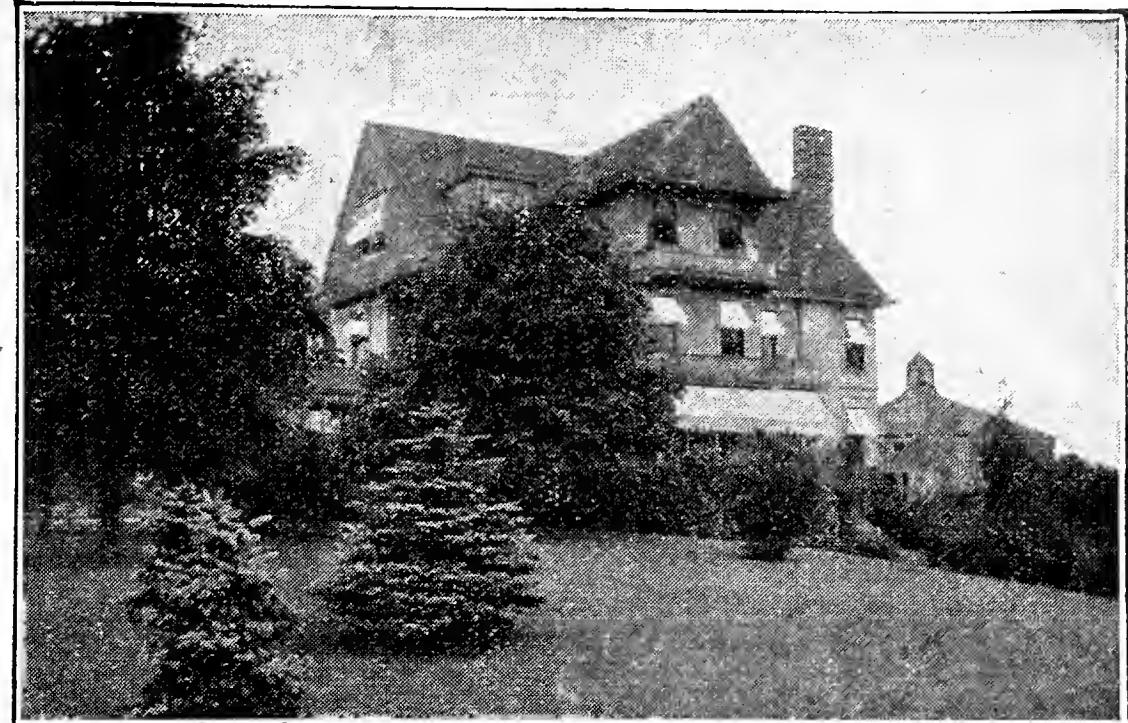
A rapid-growing, velvety green mixture for producing an immediate showing that will be followed by a good, permanent sod. Ready to cut two weeks ahead of any other mixture which we offer; nor is it lacking in permanence. It is especially recommended for late spring planting. **Postpaid: Lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25.**

### WHITE DUTCH CLOVER

Is used principally for lawns. The roots extend deep into the ground and consequently this clover stands drought well, remaining green when other grasses dry up. For this reason it is valuable for lawns on dry soil. **Postpaid: Lb., 50c; 5 lbs., \$2.25; 10 lbs., \$4.00.**

### KENTUCKY BLUE GRASS

This is the favorite lawn grass in this climate. The leaves are narrow, flat and vivid, deep green. The plants are slightly creeping and very hardy. Kentucky Blue Grass is slow to germinate. For lawns we recommend combining it with other grasses. One pound will sow 200 square feet. **Postpaid: Lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25.**



**ASTORIA CREEPING BENT**—This is the true Creeping Bent Grass, which spreads by underground roots and by stolons which creep over the ground and send down roots from their joints. It is very fine bladed and forms a thick velvety turf. It is quick growing and crowds out dandelions and other weeds. The seed is certified by the Oregon Agricultural College. is very fine and pure so one pound to 200 square feet should be planted. **Postpaid: Lb., \$1.00; 5 lbs., \$4.75; 10 lbs., \$9.00.**

**COOS OR SEASIDE BENT**—This variety differs only from the Astoria Bent in that it creeps more on top of the ground, thus forming when it has been well established somewhat of a turf or matting on top of the soil which tends to crowd out weeds. It is fine for putting greens, etc. **Postpaid: Lb., \$1.10; 5 lbs., \$5.25; 10 lbs., \$10.00.**

**IMPORTED CREEPING BENT**—A very fine leaved, low growing, deep green grass, whose roots and crowns mat together and form a turf of unequalled smoothness. It seems to bear constant use in the most remarkable way and is, therefore, the most popular grass for making putting greens, tennis courts and specially fine lawns. One pound will sow 200 square feet. **Postpaid: Lb., 95c; 5 lbs., \$4.50; 10 lbs., \$8.50.**

**CANADA BLUE GRASS**—Its merit is in the fact that it will grow on almost any soil under any adverse climatic conditions, where other grasses would fail. Especially suited for thin, dry soil. **Postpaid: Lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.75.**

**RED TOP, FANCY**—A quick-growing, fine-leaved, bright green creeping grass, popular for lawns and golf courses. **Postpaid: Lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25.**

**FESCUE, CHEWING'S NEW ZEALAND**—This is used in mixtures for fine lawns, for putting greens, wherever a particularly fine-leaved grass is wanted. Splendid for growing in shaded places. **Postpaid: Lb., 40c; 5 lbs., \$1.85; 10 lbs., \$3.50.**

**POA TRIVIALIS (Shade Grass)**—A splendid variety for putting greens or lawns under trees. Very good for shady places and makes a splendid turf. **Postpaid: Lb., 40c; 5 lbs., \$1.85; 10 lbs., \$3.50.**

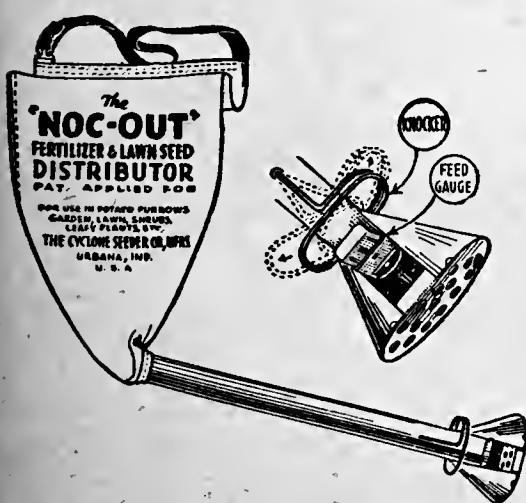
**RYE GRASS (Native)**—A valuable grass for pastures and lawns when quick results are required. Thrives well on any soil. **Postpaid: Lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.75.**

**RYE GRASS, ENGLISH (Perennial)**—Rapid growing grass, useful for making lawn where immediate effects are wanted. Valuable for hay and pasture. **Postpaid: Lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25.**

**MEADOW FESCUE OR ENGLISH BLUE GRASS**—Grows best on moist soils. Robust in habit, yet never grows into large tufts. Superior to Rye Grass for lawns. **Postpaid: Lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25.**

**BERMUDA GRASS**—A southern grass with dwarf habits, long creeping stems rooting at the joints that cover the ground with a matting of fine turf. Not suited for northern latitudes. **Postpaid: Lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.25.**

We are always pleased to quote special prices to parks, golf clubs, private estates and others who require Lawn Grass Seed in large quantities.



## Noc-Out

### Fertilizer and Lawn Seed

**Sower** — This tool is very handy for spreading mineral fertilizers on your lawn around vegetables, Shrubbery, etc. Also spreads lawn seed evenly and quickly. Inexpensive and easy to operate. **Postpaid: \$1.25.**

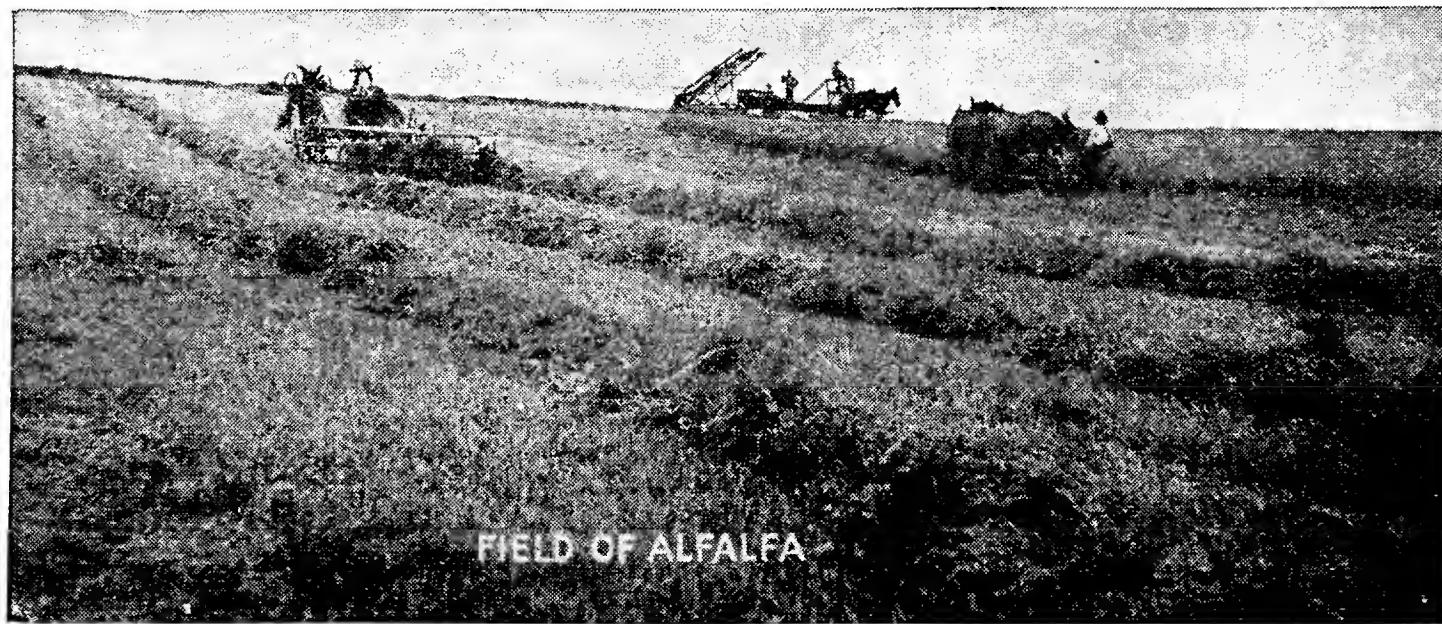
# Hardy Grass and Field Seeds

**PERFEGRO BRAND GRASS AND FIELD SEEDS** are specially recleaned and tested for purity and germination before shipping. If desired, we will send you samples and advise you what the purity and germination test are of any of the Grass or Farm Seeds.

Prices quoted are for prompt shipment only, are f. o. b. Denver, unless quoted postpaid and subject to market. Seamless cotton sacks holding about 150 pounds of Alfalfa and Clover Seed charged at 35c each.

## Alfalfa

**CULTURE**—Alfalfa Seed may be sown either in spring or fall at the rate of 12 to 20 pounds per acre. Sow with oats, barley or other grains as a nurse crop, sowing only about half the amount of grain per acre, so that the grain will not be too thick to smother out the alfalfa. Three and four cuttings are obtained each year.



**DOMESTIC ALFALFA**—Fancy Domestic Intermountain Grown Seed. Hardy anywhere, high purity and germination. Postpaid: 1 lb., 30c; 10 lbs., \$2.50; 25 lbs., \$5.50.

**DOMESTIC ALFALFA (Dry Land Grown)**—Grown on the dry plains of Colorado without irrigation. Very hardy and productive. Postpaid: Lb., 30c; 10 lbs., \$2.50; 25 lbs., \$5.50.

**GRIMM ALFALFA**—Certified Seed. Grimm Alfalfa is the hardiest of the hardy alfalfas and differs from the domestic or common variety in that it has a spreading root system instead of the long tap root which is sometimes broken when the ground bulges, during the spring freezes. Thus causing the plant to die. Highest grade seed. Postpaid: Lb., 40c; 10 lbs., \$3.50; 25 lbs., \$8.00.

FOR QUANTITY PRICES ON ALFALFA SEED SEE PAGE 1



**GRIMM ALFALFA (Growers' Affidavit Seed)**—This seed is as good and pure and will produce as much fine hay per acre as the certified seed. The grower makes affidavit that it is genuine Grimm Seed. Postpaid: Lb., 35c; 10 lbs., \$3.25; 25 lbs., \$6.25.

**SPECIAL ALFALFA No. 10**—This is a combination consisting of about 40% of Grimm Type Seed and balance of Hardy Common Seed. This is an excellent mixture where a heavy yield of hay is desired. Not recommended for sowing for a seed crop. Postpaid: Lb., 35c; 10 lbs., \$3.00; 25 lbs., \$6.00.

## Clovers

**ALSIKE OR SWEDISH CLOVER**—Grows well on low, wet land where Red Clover does not thrive. Alsike being a perennial, will last for a good many years, either for hay or in pasture. It makes fine hay of high feeding value. It is very valuable in pastures, especially on wet or heavy soil. Sow 6 to 10 pounds of seed per acre if used alone. Postpaid: Lb., 30c; 10 lbs., \$2.75; 25 lbs., \$6.25.

**RED CLOVER, Medium**—Colorado-grown seed. This is the common Red Clover, so extensively grown. It is a biennial in most places, living but two years if allowed to seed. It is usually sown early in the spring on winter wheat or with oats or barley, but can be sown in July or August quite successfully. 8 to 11 pounds Clover seed per acre. The seed we offer is the highest grade obtainable. Postpaid: Lb., 30c; 10 lbs., \$2.75; 25 lbs., \$6.25.

**RED CLOVER, Mammoth**—Also called "Pea Vine" Clover. This variety grows larger and coarser than the Medium and is often used for plowing under to enrich the soil for which purpose it is very valuable. American grown seed. Postpaid: Lb., 35c; 10 lbs., \$3.00; 25 lbs., \$6.75.

**LESPEDEZA (Korean Clover)**—Korean Lespedeza is an annual Legume with very fine stems. In general appearance it resembles Alfalfa. It grows about 15 inches high. Where the stand is scattered the plants branch profusely. Where the stand is thick the plants have an upright growth like Red Clover or Alfalfa.

Lespedeza grows on poor soils and increases the fertility as well as improves the physical condition of the soil. It is an annual but will reseed itself each year so that only one sowing is necessary for a permanent pasture.

For pasture about 8 pounds of seed is required per acre. On tilled land for hay or for a seed crop 10 to 12 pounds per acre should be sown. Korean Lespedeza is

palatable to all classes of live stock, particularly cattle. It will stand close grazing by cattle and still set enough seed to maintain a stand. Postpaid: Lb., 30c; 10 lbs., \$2.50; 25 lbs., \$4.75.

**WHITE DUTCH CLOVER, PASTURE GRADE**—A small creeping perennial variety valuable for pasturage and for lawns. It accommodates itself to a variety of soils, but prefers moist ground. Sow in spring at the rate of six pounds per acre. Contains a small percentage of Alsike clover and Timothy Seed. Postpaid: Lb., 40c; 10 lbs., \$3.75; 25 lbs., \$8.25.

**SWEET CLOVER**—The culture of sweet clover is practically the same as for alfalfa. Sweet clover, however, will grow on rough land where alfalfa would not do well. It makes an immense growth and if cut before it is too ripe makes excellent hay. It is also valuable for pasture for hogs, sheep and cattle. Like Red Clover this is a biennial and should be renewed every other year. The seed may be sown in the late fall and winter, or early spring as well as in the summer. For summer sowing use scarified seed. Seed not scarified germinates slowly and often lies in the ground a long time without sprouting. Sow 12 to 20 lbs. per acre.

**WHITE BLOSSOM**—Scarified seed. Postpaid: Lb., 25c; 10 lbs., \$2.00; 25 lbs., \$4.00.

**YELLOW BLOSSOM**—Is a biennial like the White Blossom Sweet Clover and differs from that variety only in that it is ten days earlier. Does not grow as tall, is more spreading in habit, makes finer hay or pasture. Postpaid: Lb., 25c; 10 lbs., \$2.00; 25 lbs., \$4.00.

Use Nitragin Culture "A" for Alfalfa, Sweet Clover and Culture "B" for Red Clover, Mammoth Red Clover, Alsike and White Dutch.

PRICES ON THIS PAGE ARE POSTPAID TO 4TH ZONE ONLY. FOR QUANTITY PRICES SEE PAGE 1.

## Grass Seeds for Hay and Pasture

**RED TOP (Solid Seed)**—Valuable for low land, as it is not injured by water. It also grows well on high land. Grows 2 to 3 feet high, and makes very good hay. Finest recleaned seed. Sow 8 to 10 pounds per acre. **Postpaid:** Lb., 30c; 10 lbs., \$2.25; 25 lbs., \$4.50.

**SUDAN GRASS, for Hay and Pasture**—Sudan Grass is strictly an annual, and dies each year like millet. Sudan Grass is tall, reaching a height of from 7 to 9 feet. The stems are small and are rarely larger than a lead pencil. The plant stools wonderfully and produces, under favorable conditions, as many as 100 stalks from a single root. **Postpaid:** Lb., 15c; 10 lbs., \$1.00; 25 lbs., \$2.00.

**BROMUS INERMUS OR BROME GRASS**—Drought-defying, frost-resisting. Yields enormous crops of splendid hay, and affords early and abundant pasture. It adapts itself to almost any condition of soil and climate and to any use to which grass may be put. The roots penetrate the soil deeply and form fresh plants on every side. It starts from two to three weeks earlier in the spring than native prairie grass, and keeps green in autumn longer than any of the useful grasses grown in the West. No amount of cold seems to affect it, and it surpasses all other grasses in resisting heat and drought. It equals timothy for hay, and is splendid to sow with alfalfa, clover, meadow fescue or orchard grass for pasture. **Postpaid:** Lb., 30c; 10 lbs., \$2.50; 25 lbs., \$5.00.

**BERMUDA GRASS**—The Bermuda is a native Southern grass, but on account of its wonderful drought-resisting qualities its growth has been extended northward until it is now being grown successfully in Northern Oklahoma and Kansas, and no doubt, as it becomes acclimated, its growth will be extended still further north. It has a wonderful root system, enabling it to succeed in hot, dry climates, where other grasses would perish. It is splendid for sowing on the banks of dams, gullies and thin land to prevent washing. Fine for the south. **Postpaid:** Lb., 35c; 10 lbs., \$3.00; 25 lbs., \$6.25.

**TIMOTHY**—One of the most popular grasses for hay and pasture. Sow 9 pounds of seed per acre if used alone. Fancy recleaned seed. **Postpaid:** Lb., 15c; 10 lbs., \$1.25; 25 lbs., \$2.50.

**TIMOTHY AND ALSIKE MIXED**—20 percent Alsike. Fine for hay or pasture. **Postpaid:** Lb., 25c; 10 lbs., \$1.75; 25 lbs., \$3.75.

**TIMOTHY AND ALSIKE MIXED**—10 percent Alsike. **Postpaid:** Lb., 20c; 10 lbs., \$1.50; 25 lbs., \$3.50.

**PERENNIAL RYE GRASS**—A very valuable variety for permanent pasture. Succeeds well on almost any soil, but is particularly adapted to moderately moist or irrigated lands. Sow thirty to forty pounds per acre in spring. **Postpaid:** Lb., 30c; 10 lbs., \$2.25; 25 lbs., \$4.50.

**WESTERN RYE GRASS**—A desirable grass for pasture. It forms a heavy close sod and grows up quickly after being eaten or cut off. It is also a good grass for hay if cut when in bloom. It affords good pasture after the hay is cut. Does best on rather moist and heavy soil. Use 25 to 30 pounds of seed per acre if sown alone. **Postpaid:** Lb., 25c; 10 lbs., \$1.75; 25 lbs., \$4.00.

**KENTUCKY BLUE GRASS, for Pasture**—One of the best grasses for pasture and lawns. It starts to grow very early in the spring and remains green late in the fall. It does well on either high, dry land or places that are quite moist. **Postpaid:** Lb., 30c; 10 lbs., \$2.50; 25 lbs., \$5.00.

**CANADIAN BLUE GRASS**—A more rapid grower than Kentucky Blue Grass and equally good for pasture, but not as suitable for lawns. This is an excellent pasture grass for poor dry land and should be more largely used for this purpose. Fancy high grade seed. **Postpaid:** Lb., 35c; 10 lbs., \$2.75; 25 lbs., \$6.25.

**MEADOW FESCUE, OR ENGLISH BLUE GRASS**—Of great value for permanent pasture and for hay. Does best on strong land. Grows 2 feet high. Makes a finer and better quality of hay than Orchard grass. Sow 25 to 30 pounds per acre if alone. **Postpaid:** Lb., 30c; 10 lbs., \$2.25; 25 lbs., \$4.00.

**ORCHARD GRASS**—A strong growing, rather coarse grass, good for pasture and hay. Starts very early in the spring. Grows in tufts so should be sown with other early flowering grasses. Orchard grass makes a very rapid growth after being cut and affords good pasture within a week or 10 days after cutting. Stands drought well as the roots extend deep into the soil. Sow 25 to 30 pounds per acre. **Postpaid:** Lb., 30c; 10 lbs., \$2.25; 25 lbs., \$4.50.

**WESTERN WHEAT GRASS**—This is the valuable plant that grows wild over our western country and thrives well in Colorado, Wyoming, New Mexico, and North Dakota. It is the famous bunch grass of the Canadian Northwest. It is one of the best and is the surest hay grass for these sections. It produces large quantities of hay and makes excellent permanent pasture. It, like the wild buffalo grass, is the natural grass of the West and particularly adapted to our prairie soils. It also does well on land impregnated with alkali. It withstands drought and the cold winters. As a mixture it does fine with Brome grass. Fifteen pounds of seed is usually sown to the acre, and if planted with Brome, 7 1/2 pounds to the acre. The seed being quite heavy, may be sown with any ordinary grain seeder. Plant 1 to 3 inches deep. **Postpaid:** Lb., 30c; 10 lbs., \$2.75; 25 lbs., \$6.25.

## Mixtures for Hay Lands and Pastures

**FOR ORCHARDS AND SHADY PLACES**—Mixture of Orchard Grass, Meadow Fescue, English (Perennial) Rye Grass, Red Clover. For fields shut off from much sunlight this mixture gives fine results. **Postpaid:** Lb., 30c; 10 lbs., \$2.50; 25 lbs., \$6.00.

**FOR LIGHT AND GRAVELLY SOILS**—Mixture of Rye Grass, Orchard Grass, Kentucky Blue Grass, Timothy, Red Top, Alsike and Meadow Fescue. Especially well adapted for thin soils, rocky fields and gravelly meadows. An extremely hardy mixture. Sow 25 pounds to the acre. **Postpaid:** Lb., 30c; 10 lbs., \$2.50; 25 lbs., \$6.00.

**FOR RICH LOAM OR PRAIRIE SOILS**—This mixture of Orchard Grass, Kentucky Blue Grass, Perennial Rye Grass, Meadow Fescue, Red Clover, White Clover and Alsike, is well suited for rich soils, with or without irrigation, and even under light rainfall. If you have soil that will retain what moisture falls upon it, this mixture will be admirable. Sow 25 pounds to the acre. **Postpaid:** Lb., 35c; 10 lbs., \$3.00; 25 lbs., \$7.00.

**FOR WET SOILS OR LAND SUBJECT TO OVERFLOWS**—For periodically wet fields, stream banks, creek bottoms, islands and permanently damp meadows, this mixture of Red Top, Timothy, Meadow Fescue, Kentucky Blue Grass and Alsike, gives excellent results. Sow 25 pounds to the acre. **Postpaid:** Lb., 30c; 10 lbs., \$2.50; 25 lbs., \$6.00.

**MORTON'S PASTURE MIXTURE**—The State Agricultural College recommends the following ratio for a well-balanced permanent pasture mixture and gives these quantities as the proper amounts to sow per acre.

	Pounds
Orchard Grass .....	15
Brome Grass .....	15
Meadow Fescue .....	10
Timothy .....	6
Yellow Blossom Sweet Clover .....	4
	—
Total per acre.....	50
<b>Postpaid:</b> Lb., 30c; 10 lbs., \$2.25; 25 lbs., \$5.00.	

## Seed Grains

### Spring Wheat

On irrigated lands, sow 60 to 75 pounds per acre; on dry land, 40 to 50 pounds.

**NEW MARQUIS**—Is a very early, beardless, hard, red, spring wheat, very productive. It has higher milling and baking qualities than most of the varieties of spring wheat known today, and will almost always grade No. 1.

Besides being about 10 days earlier than most spring wheats it generally outyields them and has been known to produce 45 to 60 bushels per acre.

As it is short, stiff strawed, it is not likely to lodge and stands up well under irrigated conditions. The grain is plump and of a dark red appearance. **Not Postpaid:** 1 lb., 15c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

**DEFIANCE**—This wheat has been grown here for years, and has proven well adapted to both our irrigated and non-irrigated lands, and is, perhaps, grown more largely here than all other varieties. **Not Postpaid:** Lb., 15c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

**MACARONI OR DURHAM**—This is the dry farmer's favorite and friend. It is vigorous and hardy. Noted for its heat-resisting qualities. It is fine for feeding purposes, but not so popular with the millers. **Not Postpaid:** Lb., 15c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

### Winter Wheat

On irrigated land, sow 60 to 75 pounds per acre; on dry land, 40 to 50 pounds.

**TURKEY RED**—This is the leading winter variety grown here, it is a bearded variety; very prolific, and stands the cold and drought well. **Not Postpaid:** Lb., 15c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

**KANRED WHEAT**—This new winter wheat has taken the country by storm. Developed by the Kansas State Agricultural College, and is now the most popular variety in the Middle West. It is similar to Turkey Red wheat, but earlier, more resistant to rust and a better yielder. It is the hardiest winter wheat yet produced. Records show that in one locality Kanred came through the winter unscathed while 50 per cent of other varieties were killed. It is also a better milling wheat. **Not Postpaid:** Lb., 15c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

### Barley

On irrigated land, sow 60 to 90 pounds per acre; on dry land, 40 to 50 pounds.

**TREBI BARLEY**—This is an improved barley, a good drought-resister of the California feed type. It is the barley that is grown so largely here for feed purposes, making good hay when cut before fully maturing and grain that will equal corn in feeding qualities when permitted to mature. It is very hardy and drought-resistant, often yielding 50 to 60 bushels per acre on non-irrigated lands, where other grains would fail completely. This is one of the sure grain crops for the West, where it will yield as many bushels per acre as corn yields in Kansas and Nebraska. **Not Postpaid:** Lb., 15c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

**COLSESS BARLEY**—This is a combination of the California feed and success barleys, having been improved until it is beardless, and much earlier than either of its predecessors. It is a great acquisition to the grain crops; can be successfully grown in both the non-irrigated and mountain districts of the West. It is hardy, early and a heavy yielder, and with its freedom from the troublesome beards make it the surest and best grain crop for the West. **Not Postpaid:** Lb., 15c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

**IMPROVED WHITE HULLESS OR BALD BARLEY**—It is HULLESS, BEARDLESS, very hardy, and is the only grain grown here that equals corn in feeding qualities. It is very early, maturing in from 80 to 90 days from planting, even at altitudes of 8,000 to 9,000 feet. It is vigorous, and on good soils yields from 60 to 80 bushels per acre. It is especially suitable for cultivation without irrigation, and will make a crop where wheat and other grains would fail. **Not Postpaid:** Lb., 15c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

### Ceresan

A new dust disinfectant for seed oats, barley, wheat, and other cereals made by the manufacturers of Seme-san. Effective in controlling seed borne diseases, such as Loose-Smut of oats, Stinking-smut of Wheat, etc.

### Speltz or Spring Emmer

Sow 40 to 50 pounds per acre on non-irrigated land; 60 to 80 pounds on irrigated land.

Speltz combines the qualities of wheat, oats, rye and barley. Will thrive and make a crop on land and under conditions where these would fail. Speltz is recognized as the best balanced stock food of any of the grains, and is greedily eaten by all stock in preference to other grains. It is early maturing, and especially adapted to the arid districts of the West, good crops of it being grown yearly in that vast territory of rich soil in the eastern portion of Colorado that was so long considered fit only for grazing purposes. Its earliness and hardiness enable it to mature before the hot, dry weather comes on. It is a heavy yielder, often producing 75 to 100 bushels per acre under favorable conditions. It is the Dry Lander's best and surest grain crop for stock feeding purposes. **Not Postpaid:** Lb., 15c; 5 lbs., 50c; 10 lbs., 75c; 25 lbs., \$1.25.

### Rye

On irrigated land, sow 60 to 80 pounds per acre; on dry land, 30 to 40 pounds.

In ordering spring or fall rye, please note that we supply these as spring or fall as they are supplied to us, but we cannot guarantee them to be such, as it is impossible to determine the variety from the appearance of the seed.

**SPRING RYE**—Spring rye makes an excellent crop where winter grain has been killed or blown out, or for sowing where a fall crop has not been planted. It is sown largely for early pasture and is often cut for hay. Sow seed same time as other spring grain. It does not grow quite as large straw as winter rye, but usually yields as well, and the grain is of fine quality. **Not Postpaid:** Lb., 15c; 5 lbs., 50c; 10 lbs., 75c; 25 lbs., \$1.25.

**FALL OR WINTER RYE**—This is the hardiest of any of the fall grains, and can be grown on a greater variety of soils. It will thrive in dry seasons and on light, sandy soils. It is grown for grain, for hay, for pasture and for plowing under for soiling purposes. There is no grain crop that produces as much and as good pasture as fall rye. If sown in August, makes a fine fall and winter pasture. Fall rye may also be sown in the spring, when it makes splendid summer pasture, as it will not go to seed as does the spring rye. **Not Postpaid:** Lb., 15c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

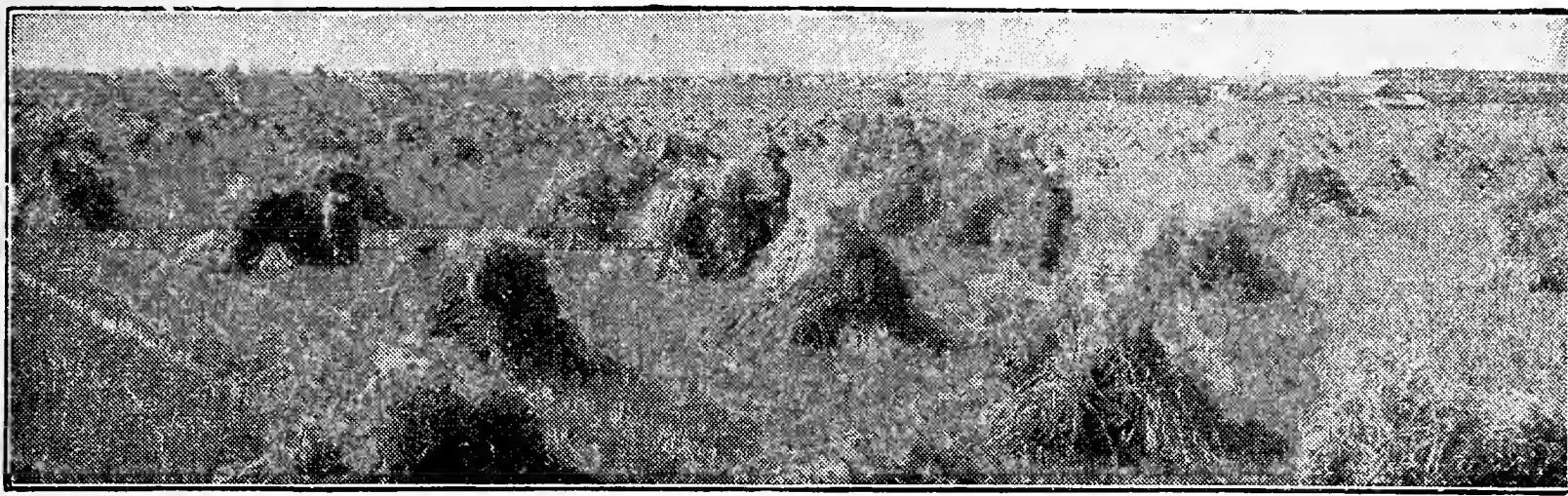
**ROSEN OR PETKUS RYE**—A winter rye of recent introduction and is becoming very popular among growers of winter rye. It is said to yield more grain, stools more, and is hardier than the older types of winter rye. **Not Postpaid:** Lb., 15c; 5 lbs., 50c; 10 lbs., 75c; 25 lbs., \$1.25.



Speltz

## Oats

Sow 2½ bushels to the acre



**SWEDISH SELECT**—(The best early oat.) Introduced a few years ago by the United States Department of Agriculture and is today the most largely grown of all varieties in the northern states. The oat is pure white in color; the hull is thin, and the kernel large and plump; straw is stiff and strong enough not to lodge. A remarkable root development makes the Swedish Select oat a good drought-resister, and especially suited to high land. It is the earliest of the heavy-yielding sorts. **Not Postpaid:** Lb., 10c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

**BLISS SIDE**—This is a very early, hardy, prolific oat, the grain resembling the Swedish Select in appearance, but is a side variety and is very popular with growers in the mountains and short-season districts. **Not Postpaid:** Lb., 10c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

**COLORADO No. 37**—This is a new oat, which has been developed in Colorado. The parent stock was selected from a field of Swedish type oats, but it has been bred up for a number of years until it is a distinct and superior variety. The hull is thicker than Victory, but it yields well, and the straw is stiff. Well adapted to irrigated and cool, dry upland conditions. **Not Postpaid:** Lb., 10c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

**VICTORY**—This oat originated a number of years ago in Sweden, and since its introduction in this country has become more popular each year. It is similar to Swedish Select in season. Grain of medium size, short, plump, white, thin hull, nearly beardless. A heavy yielder. The straw is very stiff and firm. **Not Postpaid:** Lb., 10c; 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.10.

## Miscellaneous Farm Seeds

### Buckwheat

Buckwheat is easily raised and will make profitable crops on rather poor land, where other grain would fail. It is also largely used as a cover crop in orchards. Sow in June or July, using 50 pounds of seed to the acre.

**JAPANESE**—This is the largest buckwheat. The plant makes a more vigorous and larger growth than the common kind and yields more. **Not Postpaid:** Lb., 15c; 5 lbs., 50c; 10 lbs., 80c; 25 lbs., \$1.50.

**SILVER HULL**—The kernels are gray and are much smaller than the Japanese variety. They are very plump and heavy and make excellent flour. **Not Postpaid:** Lb., 15c; 5 lbs., 50c; 10 lbs., 80c; 25 lbs., \$1.50.

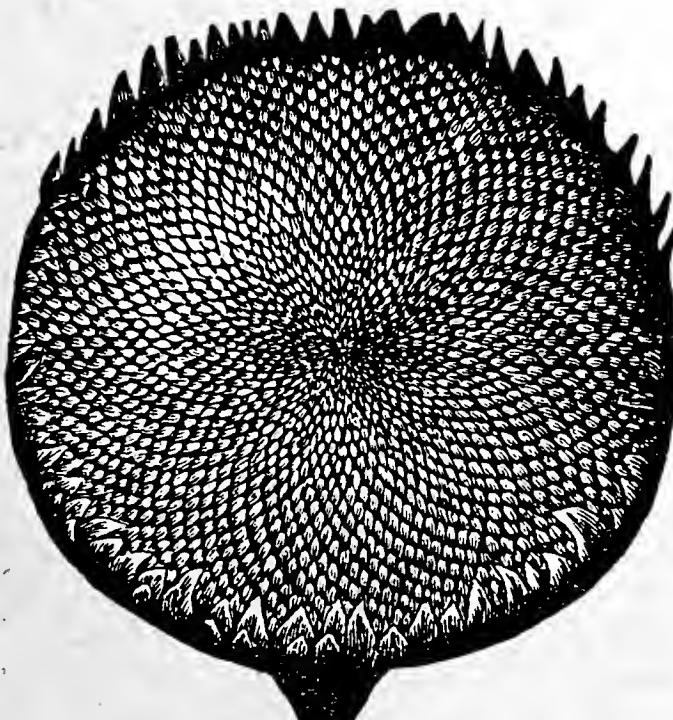
### Flax Seed

**WINONA WILT-RESISTANT**—Flax is the best and most profitable crop for sod or new lands, growers frequently realizing more from flax on sod than from wheat on old ground. Sow early, as soon as possible after danger from frost has passed. To raise seed, sow one-half bushel per acre; for fibre, one bushel. **Not Postpaid:** Lb., 20c; 5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.50.

### Sunflower

Quite extensively grown for feeding. Sow in rows 3 to 3½ feet apart and thin to a foot apart in the rows. Treat the same as corn. Use 10 to 12 lbs. of seed per acre.

Sunflowers are often used to mix with corn when filling a silo. It is claimed that the mixture makes better ensilage than pure corn.



Mammoth Russian Sunflower

**MAMMOTH RUSSIAN**—The variety commonly used to produce seed and for filling silos. The heads are often one foot across and are filled with striped seed which makes most excellent feed for hens. **Not Postpaid:** Lb., 15c; 5 lbs., 60c; 10 lbs., \$1.00; 25 lbs., \$2.00.

### Dwarf Essex Rape

**An Excellent Forage Crop for Sheep and Hogs**  
Rape belongs to the cabbage family. It produces a mass of broad, smooth leaves which are greatly relished by sheep and hogs. It can be pastured off and when stock is removed, if not eaten too close, it will grow up again and give a second crop. It does best on rather moist land but will do well on any good soil. The seed is usually sown broadcast, using about 5 pounds per acre. Sow from the first to the middle of August. If sown broadcast on corn ground after the last cultivating it makes good pasture after the corn is removed. **Not Postpaid:** Lb., 15c; 5 lbs., 60c; 10 lbs., \$1.10; 25 lbs., \$2.00.

### Vetch

**HAIRY, OR SAND VETCH**—An excellent plant for a winter cover crop to prevent leaching; also for forage and fertilizing. If sown in August or September it will make a good crop of forage the following spring. It is quite hardy and very seldom winter kills unless planted on wet, heavy soil. It is being used extensively in this vicinity for plowing under; also for dairy stock and poultry pasture. Sow 60 to 90 pounds per acre. **Not Postpaid:** Lb., 20c; 5 lbs., 85c; 10 lbs., \$1.50; 25 lbs., \$3.25.

### Field or Stock Peas

Sow 50 to 60 pounds per acre

For Colorado and the Western States, there is no crop of greater value than Field Peas; nor a crop more neglected. They make good ensilage, and are admirable feed, either green or dry, for cattle, being highly nutritious and rich in milk-producing elements.

**SAN LUIS VALLEY STOCK PEAS**—This pea is grown most extensively here, and is undoubtedly the best for the mountain districts. It is very hardy, producing an abundance of vines, which can be harvested for hay, or if permitted to mature, the peas excel corn for fattening sheep and hogs. **Not Postpaid:** Lb., 15c; 5 lbs., 50c; 10 lbs., 90c; 25 lbs., \$1.50.

**WHIP-POOR-WILL COW PEAS**—The vines when cut green, make the best of hay. When permitted to ripen, make an excellent table pea. **Not Postpaid:** Lb., 20c; 5 lbs., 90c; 10 lbs., \$1.50; 25 lbs., \$3.25.

**SOUTHERN BLACK-EYE PEAS**—The dry peas are excellent for table use, and find ready sale during the winter. They are very hardy and prolific. Vines make excellent forage or hay. This pea has proven a great success in the dry land or non-irrigated districts of the West. Its roots seem to penetrate deeper and stand drought and heat better. Especially adapted to hot, dry, non-irrigated districts. **Not Postpaid:** Lb., 20c; 5 lbs., 90c; 10 lbs., \$1.50; 25 lbs., \$3.00.

## Field Beans

40 to 60 pounds will seed an acre

**MEXICAN OR PINTO**—This is the commercial bean of the West. It is a speckled or spotted bean, used as a dry bean or for chili. In the western dryland sections it is much more productive than the navy or other varieties of field beans. **Not Postpaid: Lb., 15c; 5 lbs., 50c; 10 lbs., 80c; 25 lbs., \$1.50.**

**GREAT NORTHERN (Large Navy)**—Ripe in 100 days. High quality, large bean for use dry. Plant large with tendency to form runners; very vigorous and productive. Seed white medium large. **Not Postpaid: Lb., 15c; 5 lbs., 50c; 10 lbs., 90c; 25 lbs., \$1.75.**

**MICHIGAN PEA BEAN (Small Navy)**—The common White Pea Bean, ripens in 90-100 days. Plants large with tendency to form runners; hardy, very prolific, ripens uni-

formly. Dry beans small. **Not Postpaid: Lb., 15c; 5 lbs., 50c; 10 lbs., 80c; 25 lbs., \$1.75.**

**SOY BEANS (Early Yellow)**—Culture — If planted with corn 3 to 5 lbs. of seed per acre is required. If planted for hay or seed in rows 30 to 60 lbs. per acre is required. Soy Beans are a profitable crop as they yield large amounts of protein forage, rich in feeding value. They not only make splendid hay, but are wonderful for silage, grown with corn. Soy Beans should not be planted too early, never before corn planting time as they are a hot weather crop. Seed should be inoculated. **Not Postpaid: Lb., 20c; 5 lbs., 60c; 10 lbs., \$1.00; 25 lbs., \$2.00.**

**INOCULATE THIS CROP WITH NITRAGIN.**

## Seed Corn

10 pounds will plant an acre

The proper selection and care of seed corn is more important and exacting than the average grower realizes, as in appearance corn suitable for seed purposes is often deceiving, and its seed qualities can only be determined by actual tests for germination and vitality. Our seed corn is strictly Colorado Grown (except the ensilage varieties), is acclimated and will ripen earlier than eastern grown seed. We shall be pleased to send you a sample and germination test of any variety you may be interested in.

**WHITE AUSTRALIAN FLINT**—White Australian is a hard flint corn well adapted for cool climates and short seasons. It withstands drought well and matures in 80 days. The ears are of medium size, tapering, grow about 12 inches long. The kernels are white, smooth, somewhat shallow, rounded and very flinty. The stalks attain a height of from 5 to 6 feet, producing one to two long ears to the stalk, that set about two feet from the ground.

**SWADLEY**—Swadley is an early dent corn maturing in 90 days. It has great ability to withstand heat and drought and is a prime favorite in many sections of Colorado. It ranks equal to Australian Flint as a sure cropper under adverse conditions and is planted in preference to Australian for whole grain feeding. The ears are large and set low on the stalk, average 7 to 9 inches long and carry 12 to 16 rows of grain. The kernels are large, broad and thin, of a light yellow color merging into white on the cap.

**KING OF THE EARLIEST**—(Extra early, 90 days.) The earliest, hardiest, most productive of the yellow corns. It is the most valuable early dent corn grown, having no equal for earliness, hardiness and productiveness. It seems to possess a natural faculty of growing right along through wet or dry seasons and of making good crops under conditions that ruin other sorts. The ears ordinarily run from 7 to 10 inches long, with 12 to 16 rows of compact grains solidly set on a small cob. The stalks grow 7 to 9 feet high.

**COLORADO YELLOW DENT**—This is a variety of Yellow Dent Corn developed in Colorado and is especially well adapted for planting in the dryland districts and in the North, as it is very drought resisting and matures early. Fine for grain, fodder or ensilage.

**REID'S YELLOW DENT (110 days)**—Color deep yellow. Leaves and stalks make the finest ensilage or fodder.

**EARLY YELLOW FLINT (75 days)**—This variety is particularly adapted to sections where the Dent varieties will not mature. Fine for early feeding or for late planting.

**RAINBOW FLINT**—This is an early maturing corn and is very desirable for dry lands and short seasons. It is a flint, resembling White Australian in habit and size of kernels. The grains are variegated and highly colored.

Prices on all the above varieties except Registered Minnesota are as follows: Not postpaid: Lb., 10c; 5 lbs., 40c; 10 lbs., 60c; 25 lbs., \$1.00.

**MINNESOTA No. 13**—Minnesota No. 13 is the most popular Yellow Dent Corn in Colorado and other western states. It matures in 90 days. This makes it a very desirable corn for sections where early frosts are common. The ears set about four feet from the ground, average 7 to 10 inches long, 6 to 8 inches in circumference and carry 12 to 16 rows of kernels. The kernels are wedge shaped and of a bright, rich yellow color; smooth and packed closely from butt to tip on a small reddish cob. Throughout the West it is used extensively as a husking crop. The stalks grow six to eight feet and being thick, tall and leafy they make excellent, nutritious fodder. Plant Minnesota 13 Corn for grain, fodder, and silage.

**MINNESOTA No. 13 (Registered Seed)**—This season we can supply limited quantities of Colorado Grown Registered Minnesota No. 13 Seed Corn and will be pleased to quote prices on request. **100-lb. bags, F.O.B. Denver, \$4.00.**

**IOWA SILVER MINE (100 days)**—Silver mine is deep grained, pure white, rough-topped, with small white cob. Ears 9 to 12 inches long, with 16 to 20 rows of pure white kernels. This corn is a drought-resister, maturing in hot climates where early droughts are frequent. Stalks medium height, very leafy, with broad blades.



## Corn—Continued

**EARLY CALICO**—The grains of Calico are striped red, yellow and white and mature fully 10 days earlier than the later maturing Yellow Dent varieties. Ears 10 to 12 inches in length. Stalks tall and very leafy. Calico is very rich in protein and highly relished by stock.

**BLUE SQUAW**—Is extremely early and of very dwarf habits. Average length of ears, 7  $\frac{1}{2}$  inches, grain of dark purple color and sugary. Better for hogging down than the White or Yellow Flint as the grain is not as hard. Ready to use in about 70 days.

**RED COB ENSILAGE**—A pure white corn with a very small red cob; stools like wheat, growing from 6 to 8 feet tall and often yielding as high as 45 tons to the acre. It is sweet, tender and juicy, containing more nourishment than other ensilage corns. Has short joints, an abundance of leaves and of tall growth. Its early maturing habits, together with its enormous tonnage, make it one of the very best ensilage corns for this territory.

### BLOODY BUTCHER OR NORTHWESTERN DENT (90 days)

—This is an excellent variety of an extra early maturing corn. It is a great favorite, and is extensively grown in North and South Dakota, Minnesota, northern Wisconsin, Michigan and states of high altitude and where seasons are short and frosts early. It is a large yielder among the early sorts, always making safely in 90 days or less time. It has a great tendency to resist and withstand unfavorable conditions, such as extreme heat, cold, wet or dry weather.

**LOGAN COUNTY WHITE DENT**—A corn very similar to Colorado Yellow Dent except in color. A White Dent variety that has been bred for earliness and will make a better yield per acre than the Yellow Dents especially on thin soils.

Prices on all varieties of Corn: Not postpaid: Lb., 10c; 5 lbs., 40c; 10 lbs., 60c; 25 lbs., \$1.00.

## Grohoma

(The New Wonder Grain and Fodder Feed Combined)



Grohoma

Grohoma is a drought-resistant plant stalks growing from 4  $\frac{1}{2}$  to 5  $\frac{1}{2}$  feet tall with grain heads 10 to 18 inches long. It was originated in Oklahoma by Mr. Fred Groff. It is a Sugar Cane with Kafir heads growing on it. The stalks are very leafy making an abundance of fodder. Grohoma grain and fodder are each rich in protein and fat, this fact will appeal to the cattleman, stockfeeder and especially the dairyman.

On account of the heavy stoling it requires only about 1  $\frac{1}{2}$  lbs. of seed to plant an acre. Grohoma stools from 3 to 10 stalks from each seed, each stool producing a large seed head. This accounts for the heavy yield of grain as well as fodder per acre.

Recommended for fodder only in northern latitudes. We offer choice recleaned seed. Postpaid: Lb., 20c; 3 lbs., 45c; 6 lbs., 75c; 12 lbs., \$1.25. Not postpaid: 25 lbs., \$1.50; 50 lbs., \$2.25; 100 lbs., \$4.00.

## Dry Land Grain and Forage Seeds

**CULTURE**—For forage crops, sow 50 to 75 pounds per acre; for grain, 5 to 6 pounds in rows and cultivate same as corn.

### WHITE KAFIR (Dwarf Black Hull)

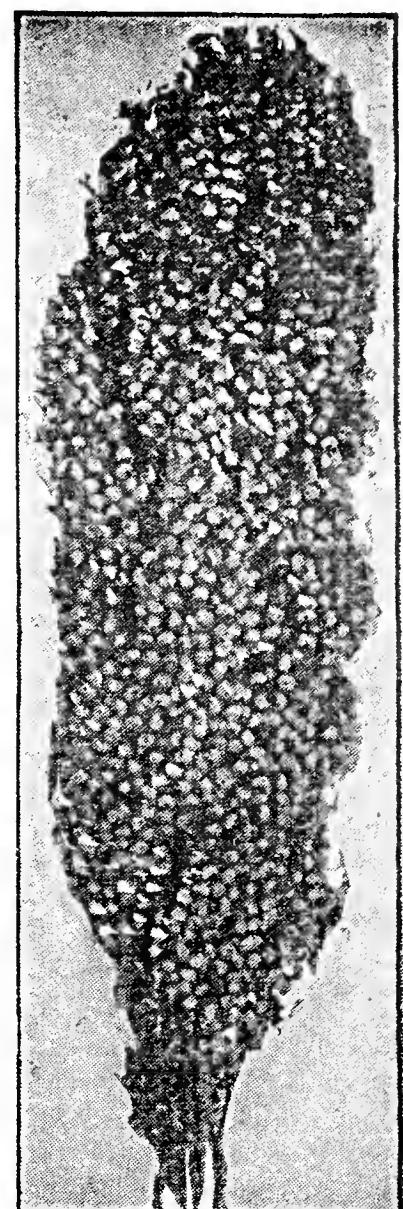
—Usually grows 5 to 6 feet tall in the dry land areas. Heads are heavy and compact, 10 to 14 inches long with black hulls and white seeds. The grain makes good feed for poultry and cattle.

### RED KAFIR

The growth is taller than the white; stalks are more slender and juicy. The heads are long, compact, and grow erect, frequently measuring 1  $\frac{1}{2}$  to 2 feet. The seed is red, somewhat smaller than that of the white, hard and brittle. Produces a good yield on poor land. Ripens a few days earlier than the white variety.

**KIOWA KAFIR**—This is the earliest maturing of the Kafir group. Valuable for forage as well as for the grain as the stalks are very leafy and highly relished by all stock.

**WHEATLAND MILO**—One of the best grain sorghums, developed by the Kansas Agricultural College. Extremely dwarf in habit making it easy to combine, very drought resistant and a heavy yielder of excellent grain, equal in feeding value to corn.



Kafir Corn

**DWARF YELLOW MILO MAIZE**—A non-saccharine Sorghum of high feeding value. This is the plant that is being so largely raised for its grain in the dry plains of eastern Colorado and western Kansas. The seed is larger than the seed of Kafir and not as hard and equal to corn in feeding value for stock and poultry.

**FETERITA**—Feterita is the earliest and most drought-resistant of the grain sorghums. The seed is larger than the seed of Kafir or Milo and not so hard. Should not be planted until the weather is warm, as it will rot before sprouting if the soil is cold and wet.

All prices on the above Kafirs, Milos and Feterita: Not postpaid: Lb., 10c; 5 lbs., 40c; 10 lbs., 60c; 25 lbs., \$1.00.

## Cane or Sorghum

**WHITE CANE OR FREED SORGO**—It resembles amber sorghum in appearance of stems, leaves, and heads, but differs in that the heads are not as juicy and only slightly sweet. Unlike the sweet sorghums, the seeds do not contain tannin, and hence are good feed for stock. The hulls are yellowish white and nearly enclose the seed. Freed sorghum matures in from 70 to 90 days and is therefore well adapted for short seasons and late plantings.

**BLACK AMBER**—Is the most used. It is only in recent years that its real value as a food for livestock has attracted general attention. Its great merit is now beginning to be fully appreciated. It is sweet, tender, nutritious, and greedily eaten by all kinds of stock. Dairymen find, when fed as ensilage, that cows give more and richer milk than from other feed. It can be grown successfully in any part of the country. It roots deeply; therefore, is one of the best plants to resist drought, and is a sure cropper. On account of its sugar contents and rank growth, no fodder crop produces so rich and large amount of good feed for so little money.

**RED AMBER**—This is a comparatively new variety, but is rapidly increasing in popularity. It is similar to the Black Amber, but is more leafy and is somewhat earlier than the black, which makes it more satisfactory for a catch crop after others have failed.

Prices on all varieties of Cane: Not postpaid: Lb., 10c; 5 lbs., 40c; 10 lbs., 60c; 25 lbs., \$1.00.

Prices on this page are not postpaid, if wanted by parcel post add 5c per pound. For quantity prices see page 1.

## Cane —Continued



Sorghum or Cane

**RED ORANGE**—A heavy-yielding variety grown for forage and silage. It is rather late in maturing seed, as it takes from 100 to 110 days.

**EARLY YELLOW ORANGE**—Grows taller and more leafy than the Early Amber, but is about ten days later. Where this has been tried out it is being preferred to Black Amber for fodder, as it makes a better stock feed and is not as hard on the soil. Horses will eat it up clean; stock, leaves, head and all.

**RED TOP OR SUMAC**—This variety is very popular in the South and Southwest. The seeds are unlike the other varieties of canes, as they shell off clean, more like the grain sorghum, and are more desirable for feeding. Red Top plants are very leafy and sweet. It makes the most fodder and forage of any of the sorghums, and when better known by our Colorado farmers will be more highly appreciated.

Prices on above varieties of Cane, not postpaid: Lb., 10c; 5 lbs., 40c; 10 lbs., 60c; 25 lbs., \$1.00.

**TEXAS SEEDED RIBBON**—Six to eight pounds of seed will plant an acre. It is not only best for syrup, but is superior to fodder cane for ensilage purposes. The stalks grow from 10 to 12 feet high. Cut with the foliage on, it makes the finest ensilage for all kinds of stock. It matures early and is ready to cut and grind before frost comes. When properly cared for, will make from 200 to 350 gallons of molasses per acre. Not postpaid: Lb., 20c; 5 lbs., 70c; 10 lbs., \$1.00; 25 lbs., \$1.50.

## Plant Sorghums for Silage

As a silage crop Sorghum is more productive than corn, regardless of rainfall, soil, elevation or length of growing season. The feed value is approximately the same as corn.

The result of a five-year test at the Kansas State Agricultural College was as follows: Average yield of silage, Sweet Sorghum or cane, 18.02 tons per acre; Corn, 11.81 tons per acre; Kafir Corn, 11.88 tons per acre. This shows the yield of Sorghum or Cane to be 50% greater than Corn or Kafir.

## Millet

Millet is a wonderful forage and hay crop. It affords a quick, luxuriant growth of hay of good feeding value and requires no cultivation. Millet may be fed green or cured. The value of millets for late planting and emergency crops after others fail should not be overlooked. They can be planted late in July and still make considerable forage. Sow about 30 pounds to the acre.

**WHITE WONDER**—A variety which has taken the place of common Millet and has qualities superior to other varieties. It is early, the heads are very large and long, and the foliage is heavy yet easily cured.

**WESTERN OR GOLDEN**—This is one of the earliest varieties and makes good hay.

**MANITOBA OR HOG**—A valuable peculiarity of Hog Millet is that seeds ripen while the hay is yet green, which, if cut at the proper time, can be threshed for seed, while the hay makes excellent fodder after being threshed.

Prices on all varieties of Millet, not postpaid: Lb., 10c; 5 lbs., 40c; 10 lbs., 60c; 25 lbs., \$1.00.

**EARLY FORTUNE OR RED HOG**—Very similar to the Manitoba or Hog Millet, only the seed is red instead of yellow.

**SIBERIAN OR RED RUSSIAN**—Earlier, more hardy, rust-proof, and less liable to damage by insects, an extremely heavy cropper; stalks tall, and of finer quality than any other sort. Best variety for hay.

**BIG GERMAN**—This is one of the best forage plants grown in this country. Under ordinary conditions will produce from 4 to 5 tons of hay per acre, and from 50 to 75 bushels of seed. When sown early it leaves the ground in splendid condition for wheat.

## Broom Corn

The Broom Corns are distinguished by their dry, pithy stalks and by their long, loose, open heads called brush. The heads, which are the important part of the crop, are used in making brooms and brushes. Plant about June 1st in rows 3½ feet apart, using about 8 lbs. of seed per acre.

**BLACK SPANISH**—This variety is fast supplanting all others with growers who market brush. It is similar in growth to the Oklahoma Dwarf Evergreen with the exception that practically all the seed grows in a ball on the top of the brush. This characteristic simplifies seeding operations and enhances the value of the brush. Not postpaid: Lb., 10c; 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.50.

## Johnson Grass

It does magnificently in the North and sometimes makes 4 tons of good hay per acre. The roots of Johnson Grass are easily killed by cold weather, and exposure of the roots and late fall or winter plowing will effectually eradicate it whenever freezing cold weather occurs. Not postpaid: Lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.50; 25 lbs., \$3.25.

## Peanuts

Peanuts can be successfully grown in the North on warm, sandy soil in a sheltered place with a southern exposure.

Plant the same time as corn, in rows 2½ feet apart. Drop the shelled nuts 8 to 10 inches apart, cover 1 inch deep. When the plants are nearly full grown throw earth up to them. This will cause the nuts to form.

**EARLY SPANISH**—The earliest variety and best for the North. Not postpaid: Lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.75.

**WHITE JUMBO**—This is the standard variety for roasting. The peanuts are three times as large as those of the ordinary Spanish peanut. Not postpaid: Lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.00.

# Registered Farm Seeds

Registered Farm Seeds are grown by members of the Colorado Pure Seed Growers Association, under the direct supervision of the Colorado Agricultural College. The Growers planting stock, in every case has originated from foundation seed developed by a State or Government Experiment Station. It represents the highest quality available in pedigreed field seeds.

Each lot of seed must satisfactorily pass field inspection, bin inspection and laboratory tests before it can be sold as registered seed. This seed is put up in 100-lb. bags bearing the authorized blue tag of registration.

Prices on these registered seeds have not been established. If you are interested in any of the following pedigreed field seeds, write us stating quantity wanted and prices will be quoted promptly.



## Marquis Spring Wheat

Marquis is a beardless, hard red spring wheat particularly adapted to irrigated lands. Comparative field tests indicated that this registered strain will outyield the old strains of Marquis from 3 to 5 bushels per acre.

## Kanred Winter Wheat

Kanred is a bearded winter wheat. It is Colorado's highest yielding variety of winter wheat. It excels its closest competitor in hardiness, yield and resistance to rust. Kanred is entirely equal to Turkey red in milling quality.

## Trebi Barley

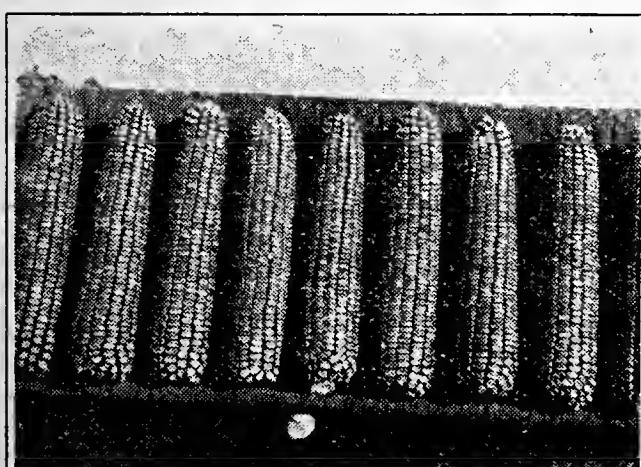
Trebi is a six-rowed, bearded, hulled barley adapted to irrigated conditions. At the Ft. Collins Experiment Station it outyielded all other barleys in a six-year test. Though it is a rough awned variety it has the advantage over coast barley in that the awns thresh free from the grain, thus eliminating considerable danger in feeding.

## Club Mariout Barley

Club Mariout Barley plays the same role on dryland that Trebi plays on irrigated land. Released from the Akron station two years ago it has met with marked favor on the drylands. This year, under extreme droughty conditions, it has produced good yields, not one case of burning having been reported. Club Mariout is an extremely early maturing, six-rowed, hulled and awned variety.

## Colsess Barley

Colsess is a heavy yielding hooded barley well adapted to growth in mountain regions both under irrigated and dry land conditions. The straw is strong and the plant is early maturing, thus making this variety very valuable as a nurse crop for land seeded in alfalfa or grass. This barley has a particular advantage over the old Success Variety in that it yields better and the heads do not shatter easily. The registered strain is a recent selection from the Colorado Experiment Station. It shows particular qualities for yield.



Minn. No. 13 Corn

## Colorado 37 Oats

Under irrigation at elevations between 4800 and 7000 feet Colorado 37 has considerably outyielded all other varieties of oats. This is a midseason white oat with stiff straw. In appearance it resembles the variety Swedish Select. Due to careful selection the registered strain retains its original superiority.

## Brunker Oats

Brunker oats is a very early drouth-resistant variety of red oats. They were released for registration by the Akron Dryland Station two years ago. Despite the dry season no failures of fields planted to Brunker have been reported. In field tests at Akron, Brunker oats outyielded their closest dryland competitor, Kanota, 6.3%.

## Victory Oats

Victory Oats, like Colorado 37, is of the Swedish type. They are a mid-season white oat with medium stiff straw. In yielding qualities they have been found to rank high, particularly under irrigation, in northern Colorado. The registered seed is produced from foundation seed secured from the Canadian Seed Growers Association.

## Bliss Side Oats

Bliss Oats is a white side oat selection made by E. R. Bliss of Greeley. It is especially adapted to irrigated land and is often used as a hay crop due to its abundant yield of foliage.

## Grimm Alfalfa

Grimm Alfalfa is the outstanding variegated alfalfa for the northern and western part of the United States. There are numerous varieties of variegated alfalfas and more are being added each year. However, for Colorado conditions, Grimm has proved to be all that can be desired. In hay yield tests at Ft. Collins the hardy Grimm type alfalfas all outyielded the common alfalfas from one-half to one ton per acre.

## Bison Flax

Success in flax production depends to a large extent upon the wilt resistance of the variety planted. Bison is a wilt-resistant, large seeded, heavy yielding strain.

## Minnesota No. 13 Corn

The Registered Minn. No. 13 is grown in the high altitude of Colorado most of it at an elevation of over 5,000 feet. This insures hardiness as well as earliness. The registered strain is bred specially for earliness and trueness to type. Minn. No. 13 is a 90-day, high yielding corn recommended for a grain crop as well as for ensilage as the stalks grow tall and are very leafy.

## Planet Jr. Tools

A Complete Catalogue Sent on Request

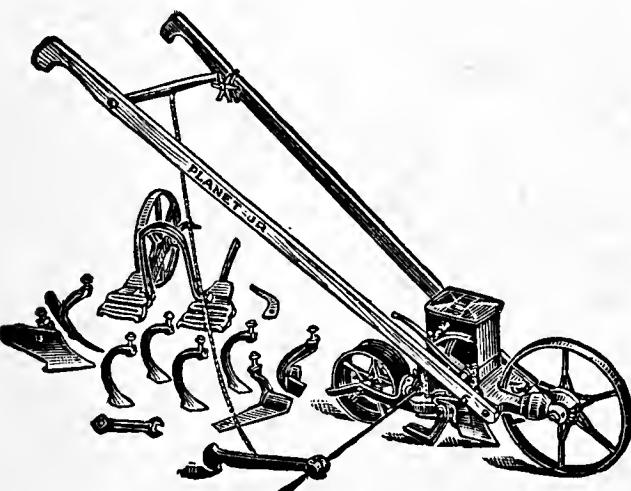
Send for a **Planet Jr. Catalogue**. It is possible to list only a few of these tools here since the line includes a very complete assortment of hand tools and horse tools, both for one horse and two horses.

All Prices Quoted F.O.B. Denver on Garden Tools

**No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow. Price, complete, \$16.75.**

As a seeder only (No. 4D), \$13.50. Holds 2 1/2 quarts of seed.

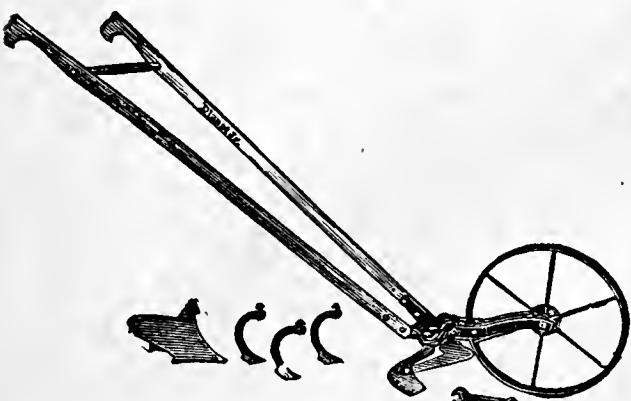
The No. 4 Seeder sows practically all vegetable seeds in drills, or drops in hills 4, 6, 8, 12 or 24 inches apart. In one operation it opens the furrow, drops seeds at the right depth and thickness, covers them, packs soil, and marks the next row. You get straight rows, the right number of plants; this makes cultivation easier.



**No. 25 Planet Jr. Hill and Drill Seeder, Single and Double Wheel Hoe. \$21.00**

Holds 2 1/2 quarts. Weight, 61 lbs.

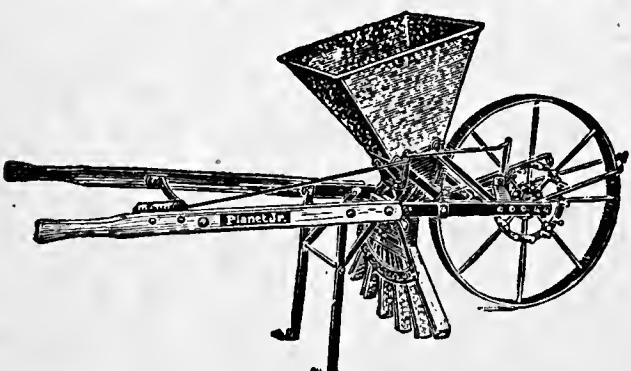
This is a splendid combination for a family garden, onion grower or large-scale gardener. As a seeder it is the same as the No. 4 and does the same accurate work. Can be used as a double wheel hoe to straddle rows. Hoes work close without injuring plants; cultivator teeth and plows do thorough work. Cutting tools specially hardened. Two acres a day can be worked with this tool.



**No. 17 Planet Jr. Single Wheel Hoe. Price, \$7.35**

The No. 17, with its valuable assortment of attachments, is a very complete tool for any kind of garden work—plowing, cultivating, harrowing, hoeing, opening and closing furrows, hilling up plants—always useful throughout the season.

**No. 18**—Equipment one pair of 6-inch hoes only, most useful cultivating attachment. **Price, \$5.50.**



**Planet Jr. Fertilizer Distributor No. 220.**

The No. 220 will distribute fertilizer in the middles of three rows 12 to 14 inches apart; it will side-dress one side each of two rows up to 36 inches apart (one complete row; and corn in wider rows). You can use it in very narrow rows—as close as 9 inches. You can use it in 42 to 48-inch rows by closing off the flow in three spouts and distributing through the other three—either on the right or left hand side.

**Price, \$26.00**

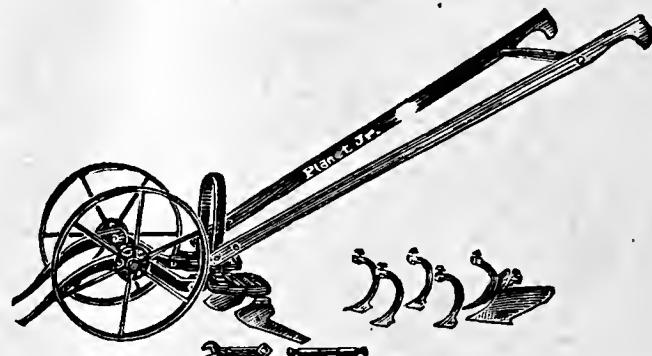


**No. 300 Planet Jr. Drill Seeder Price, Complete, \$18.75**

**No. 300A — Price, Complete \$18.75**

A plate or disc seeder for all seeds from the smallest up to and including peas, beans and corn. Growers of peas and beans will appreciate this seeder, as it does not break the seed and sows with great regularity. Only three plates each with thirteen holes, making ample

adjustment for various seeds. Hopper holds 4 quarts and is removable, which makes easy filling and emptying.



**No. 12 Planet Jr. Double Wheel Hoe, Cultivator and Plow. Price, \$10.25**

A single and double wheel hoe in one. Straddles the row until the plants are 20 inches high, cultivating both sides at once. Cuts in half time required for cultivating and gives you time to have a larger garden.

**No. 13 PLANET JR. DOUBLE WHEEL HOE** is the No. 12 with 6-inch hoes only. Weight, 28 pounds. **Price, \$7.60.**



No. 119 has a strong plow, 2 cultivator teeth, wide and narrow, a reversible attachment with 3-toothed cultivator and scuffle blade for weeding and shallow cultivation.

Wheel 24 inches high.

**No. 119 Price, \$4.75**  
Packed weight, 18 pounds.



**No. 35 Planet Jr. Seeder Attachment.**

With one bolt it fastens to any Planet Jr. Wheel Hoe or Garden Plow, or you can bolt a home-made handle to the bracket on the rear of the hopper and go ahead. Used in this way it is well suited for planting in hotbeds and greenhouses.

With the No. 35 you put a 5-cent packet or pint of seed in the hopper, set the seed index lever at the seed you are going to sow, and start. The furrow is opened, the seeds are planted and covered as you go. There is no stooping and back cracking and the job is done in much less time. The seeds are at an even depth and in straight, narrow rows, making cultivation easier and quicker. **Price, Not Prepaid: \$6.25. Price, Postpaid: \$6.65.**

### EXTRAS FOR PLANET JR. HAND TOOLS

6-inch hoes, pair	\$1.30
7 1/2-inch hoes, pair	1.50
9-inch hoes, pair	1.65
Cultivator teeth, all steel, No. 1395, each	.35
Plows for single wheel hoes, each	1.10
Plows for double wheel hoes, pair	1.40
Double mouldboard plows, each	2.25
Onion harvester, 8-inch, each	1.60
Handles, pair	1.00
Disc hoes, pair	3.50

**Iron King Seeder No. 4**

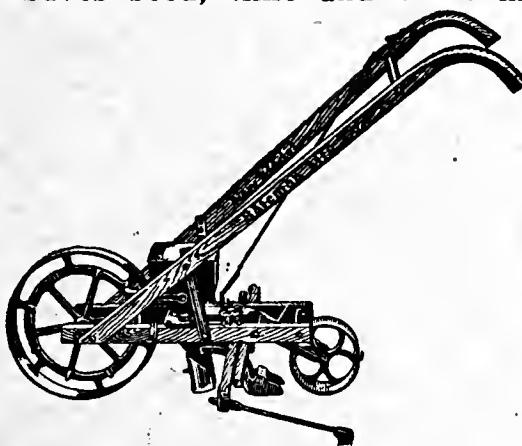
The Iron King Seeder No. 4 is constructed of steel. It has fewer parts and is less complicated than other drills. The V-shaped shoe makes it possible to sow seed in an exact line and at uniform depth.

The front wheel is 15 inches high with tire 2 1/2 inches wide. The rear wheel is 13 inches high with 2 1/2-inch tire.

Equipment consists of 1 iron agitator and 1 brush agitator for tender seeds, 1 regular seed plate and 1 special onion seed plate and wrench. Price, F.O.B. Denver, \$16.00.

**New Model Garden Seed Drill**

Many of the first New Model Seed drills made 34 years ago are still in use today. Saves seed, time and work in planting all kinds of garden seeds. Here is the ideal seeder for all planting. When a garden tool working year in and year out is in first class condition after 25 years of service, nothing needs to be said in telling of the quality of materials and workmanship in its construction. Price, F.O.B., Denver, \$14.50.

**Planet Jr. Star Pulverizer, Leveler and Weeder**

Price, Not Postpaid, \$2.85  
Postpaid, \$3.10

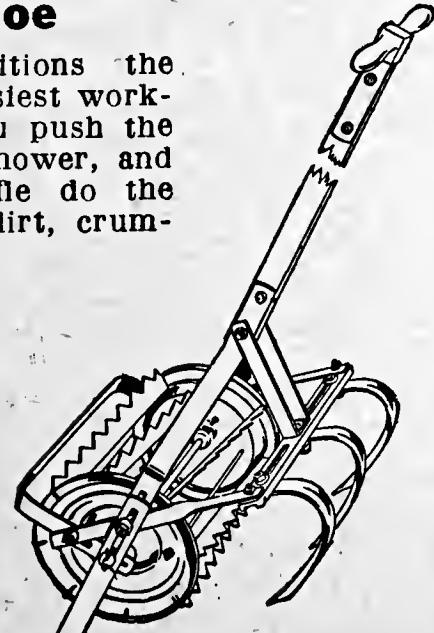
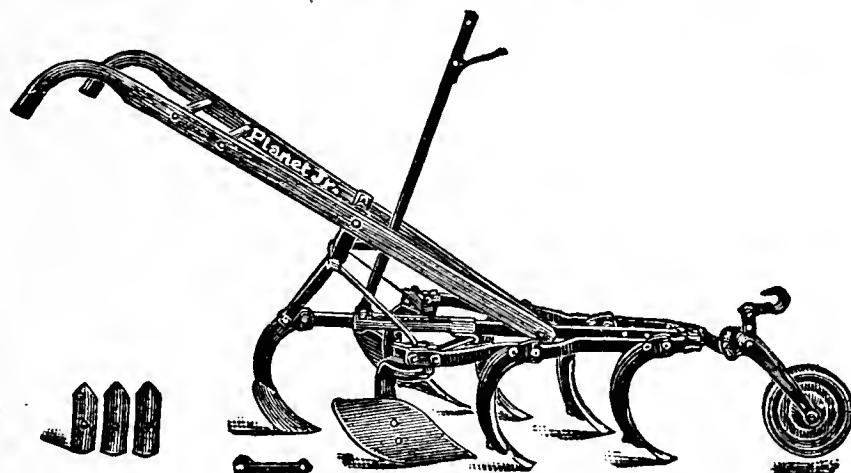


This tool is particularly useful to nurserymen. It is fine for cleaning up hot beds, preparing beds for planting, working around shrubs, trees, etc. The revolving star-shaped discs have a large cutting surface; these in conjunction with the scuffle blade, cut and pulverize the soil below the surface, as no amount of raking could possibly do. The scuffle blade acts like a hoe cutting off the weeds. It cuts 7 1/2 inches wide.

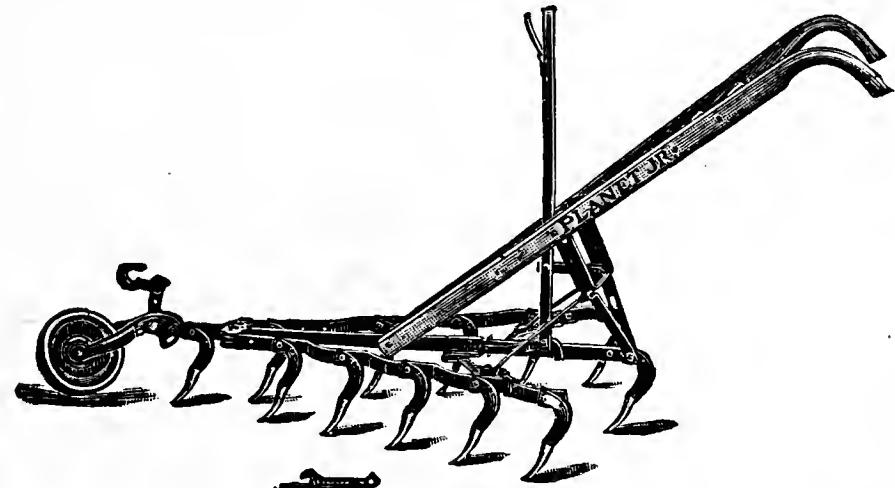
**Planet Jr. Speedhoe**

Under favorable soil conditions the Speedhoe is the quickest and easiest working garden outfit we make. You push the Speedhoe as you would a lawnmower, and the revolving blades and scuffle do the rest. The blades bite into the dirt, crumbling the crust or lumps against the scuffle, leaving a pulverized mulch that retains the moisture and maintains a uniform temperature around the roots of the plants.

The sharpened scuffle or knife blade cuts off the weeds, as it throws no dirt you can work very close to the plants even when they are quite small. Size 10-in. blade, F.O.B. Denver, \$8.25. Prepaid, \$9.00.

**No. 82 Planet Jr. Seven-Tooth Horse Hoe and Cultivator Combined**

The No. 82 Seven-Tooth Horse Hoe, though a new machine, has gained great popularity because of the large amount and great variety of work that can be done with it. Finishes rows up to 42 inches apart and works the middle complete at one passage. Its reversible side standards can be changed to any angle desired; the zig-zag frame is particularly strong, and the 7 teeth insure fine and thorough cultivation. Equipment as illustrated. Price, F.O.B. Denver, \$14.25.

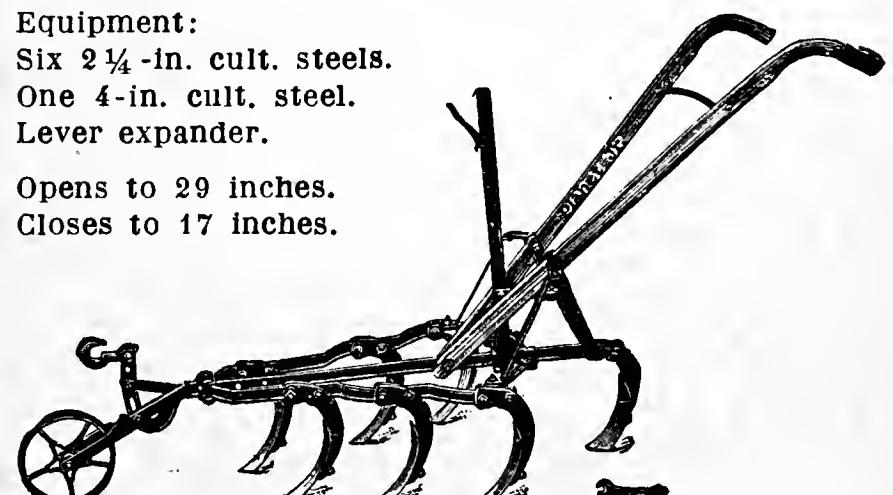
**No. 91 Planet Jr. Twelve-Tooth Harrow**

This 12-tooth harrow gives excellent satisfaction. The Strawberry grower finds this tool invaluable, as it works so closely and thoroughly, deep or shallow, without throwing earth on the plants. He uses it to keep the ground loose and clean, and to work up and bed the runners; the round-throated teeth turn them aside without injury, ready to root in the mellowed soil. Farmers and gardeners use the harrow in deep or close cultivation, or when desiring to work a crop thoroughly, but without hillng. F. O. B. Denver, \$11.85.

**No. 107 Planet Jr. Seven-Tooth Plain Cultivator**

Equipment:  
Six 2 1/4-in. cult. steels.  
One 4-in. cult. steel.  
Lever expander.

Opens to 29 inches.  
Closes to 17 inches.



The No. 107 Planet Jr. Seven-Tooth Plain Cultivator is very much like the No. 101, but has seven teeth. It does closer and finer work than the five-tooth. The demand today is for better cultivation, finer, closer work and surer destruction to weeds.

The Planet Jr. No. 107 7-tooth Plain Cultivator is meeting this demand for many farmers.

Improved and One-sided Sweeps and Furrowers can be used on all Planet Jr. Plain Cultivators.  
Price, F.O.B. Denver, \$11.50.

## Cultivator Points and Sweeps

### Not Postpaid

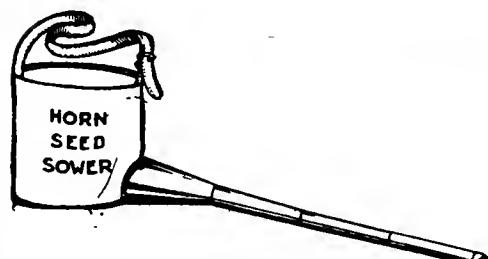
No.	Size	Cultivator	Steel	Each
0	1 1/4 x 8-inch	Cultivator	Steels	\$0.25
96	1 1/2 x 8-inch	Cultivator	Steels	.25
81	1 3/4 x 8-inch	Cultivator	Steels	.25
1	2 x 8-inch	Cultivator	Steels	.25
89	2 1/2 x 8-inch	Cultivator	Steels	.25
83A	3 1/2 x 8-inch	Cultivator	Steels	.30
84A	4 x 8-inch	Cultivator	Steels	.30
90	1 3/4 x 10-inch	Cultivator	Steels	.35
91	2 1/2 x 10-inch	Cultivator	Steels	.40
97	2 x 10-inch	Cultivator	Steels	.35
18	6-inch	Sweeps		.45
18	8-inch	Sweeps		.50
18	10-inch	Sweeps		.50
18	12-inch	Sweeps		.60
18	15-inch	Sweeps		.65
23	6-inch	Half-Sweeps (right)		.45
23	6-inch	Half-Sweeps (left)		.45
23	8-inch	Half-Sweeps (right)		.45
23	8-inch	Half-Sweeps (left)		.45
14	7-inch	Rear Horse Hoe Shovel		.45
7x9-inch	Shovel Blade			.45
9x9-inch	Shovel Blade			.50
10-inch	Furrower			1.25
12-inch	Furrower			1.40
15-inch	Furrower			1.60
18-inch	Furrower			1.75

## Hand Seeders

### THE CYCLONE SEED SOWER



Is considered by all who have used it to be the best and most practical low-priced seeder on the market. It has a slanting feed board, keeping hopper properly filled. Its automatic feed adjustment starts or stops flow instantly. Its oscillating feed agitator makes it positive force feed. By freight or express at purchaser's expense, \$2.00. Postpaid, \$2.25.



**"HORN" SEED SOWER**  
The Sectional Tube Type.

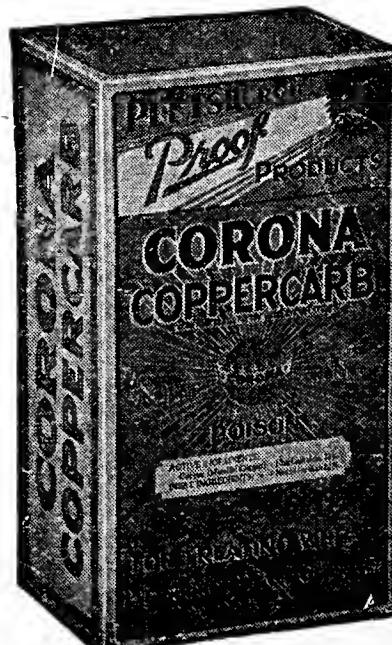
Has a heavy canvas bag with strap to go over shoulder. Tin tube is in three sections and of a graduating diameter. Length is 30 inches. The larger end fits into a stub joint which is fastened to the bag and in which is a gauge to regulate the seed. Full directions on each machine. Postpaid, \$1.00. By express at purchaser's expense, 90c.

## FORMALDEHYDE

This solution is used to prevent fungoid diseases such as Potato Scab, Wheat Smut, etc. The dilution for most purposes is one pound of Formaldehyde to 15 or 20 gallons of water. One or two gallons of solution is required to treat each bushel of potatoes. Formaldehyde, being liquid, cannot be mailed. Price per 1-lb. can, 40c; 6 cans or more, 35c per can.

## CORONA COPPERCARB

For killing smut spores in wheat, Corona Coppercarb has been found to be highly efficient. It is a specially prepared product and nothing has to be added to it to get results desired. Circular matter giving authoritative information can be had on request. Two or three ounces per bushel is recommended. Packed in 5-lb. cartons. Price, 90c each; per case, 30 lbs., \$4.50. Cannot be mailed.

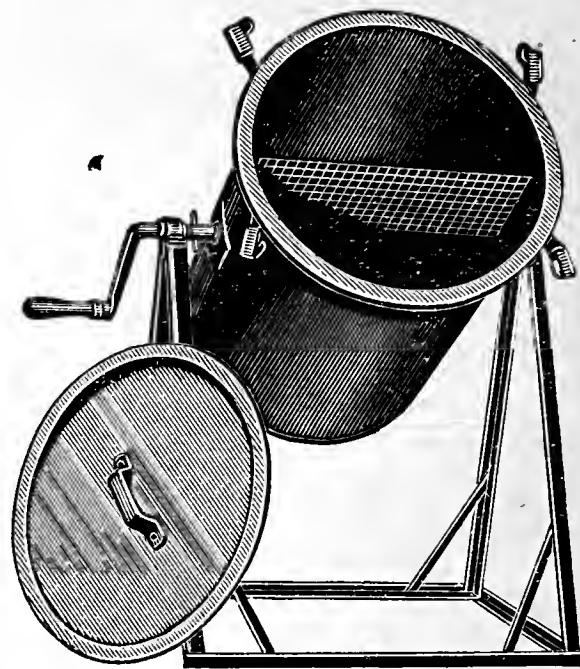


## Peerless Mixer

The Peerless Mixer has been found adaptable to a wide variety of uses from mixing chicken feed and insecticides to treating grain.

No. 60 is 16x24 with a mixing capacity of one bushel or 60 lbs. complete with one screen. Price, not prepaid, \$20.00. Shipping weight 75 lbs.

No. 100 is 20x30 with a mixing capacity of one and one-half bushels or 100 lbs. complete with two screens. Price, not prepaid, \$25.00. Shipping weight 95 lbs.



## TREAT BEFORE PLANTING WITH **SEMESAN**

### FOR DISEASE PROTECTION

#### PREVENTS DAMPING OFF AND PRODUCES BETTER CROPS

Semesan is one of the most remarkable chemicals developed by modern science. It will completely kill or control the many diseases borne on the surface coats of even the finest of selected seeds and yet at the same time in no way injure the delicate germ life of the seeds treated. In fact, Semesan stimulates seeds to a growth, vigor and fruition that far exceeds the capabilities of their progenitors.

**SEMESAN**—Can be applied in either the liquid or convenient dust form to prevent or control effectively a most diversified variety of parasitic diseases and fungoid growths borne by seeds, seed pieces, plants, grafts and soils. Semesan is harmless to seed and plant life but extremely poisonous to disease and fungous organisms. It generally also hastens germination.

The cost of treatment is extremely low, ranging from 1/4c to 1 1/2c per pound of seed.

Prices: 2 oz., 50c; lb., \$2.50; 5 lbs., \$11.75; 25 lbs., \$46.25.

**SEMESAN JR.**—A less expensive but equally effective form for the dry dust disinfection of both field and sweet corn seeds.

Its use protects the seed from rotting in the ground and makes possible earlier planting which generally results in higher prices and increased yields. The cost is less than 3c per acre.

Prices: 4 oz., 40c; lb., \$1.50; 5 lbs., \$7.00; 25 lbs., \$31.25.

**SEMESAN BEL (New Improved)**—One pound of the New Improved Semesan Bel will treat 16-20 bushels of cut potatoes or twice as much as the old type. It also possesses greater disease control properties especially in respect to control of Rhizoctonia and seed-born Scab. The "Instantaneous Dip" method for applying new Semesan Bel saves time and labor. Semesan Bel does not harm the seed pieces.

Prices: 4 oz., 50c; lb., \$1.75; 5 lbs., \$8.00; 25 lbs., \$31.25.

**CERESAN**—Effective in controlling stinking smut and seed-borne flag smut of wheat; smuts of oats; covered smut and stripe of barley; kernel smuts of sorghums and millets; and seed-borne stem smut of rye. Only 2 ounces needed per bushel of seed wheat, rye, sorghums or millets and 3 ounces for oats and barley.

Prices: 8 oz., 50c; lb., 75c; 5 lbs., \$3.00; 25 lbs., \$12.50.

The Above Items Cannot Be Mailed.

Booklets describing the uses and benefits of Semesan products will be gladly sent free on request. Please mention the crops you are interested in.

## Better Garden Tools

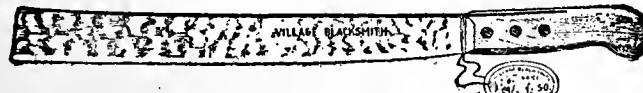
### LETTUCE CUTTERS

This tool was developed primarily to meet the demands of the large lettuce growers for harvesting their crops. They will be found very handy around the home garden for gathering any headed vegetables.

Style LCD has offset shank, 8-inch handle, thirteen inches long over all, 3-inch blade. **Price, postpaid, each, 60c.**



### CORN KNIFE



Crucible tool steel; anvil finish; maple handle.

**No. 1**—Length of blade 16½ in.; width 1¼ in.; weight 16 oz. **Each, 50c, postpaid.**

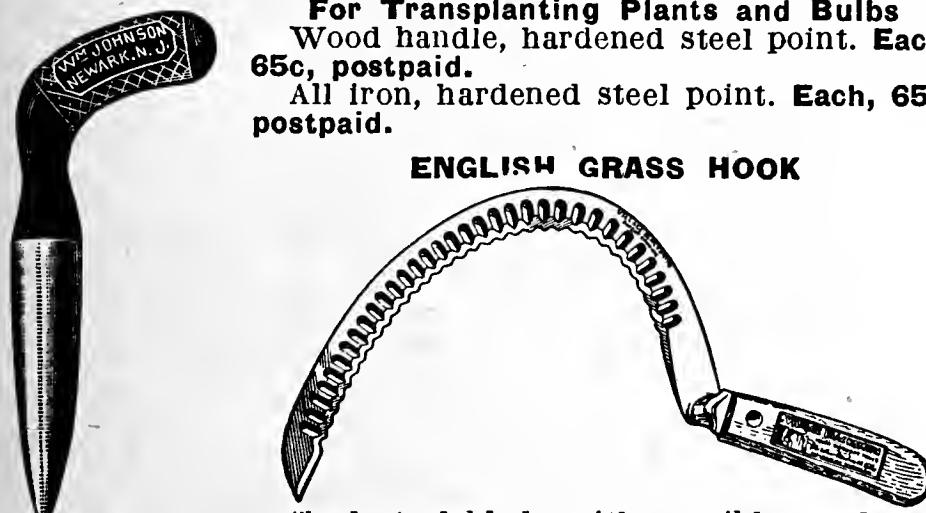
**No. 2**—Length of blade 16½ in.; width 1¾ in.; weight 20 oz. **Each, 60c, postpaid.**

### GARDEN DIBBLES

**For Transplanting Plants and Bulbs**  
Wood handle, hardened steel point. **Each, 65c, postpaid.**

All iron, hardened steel point. **Each, 65c, postpaid.**

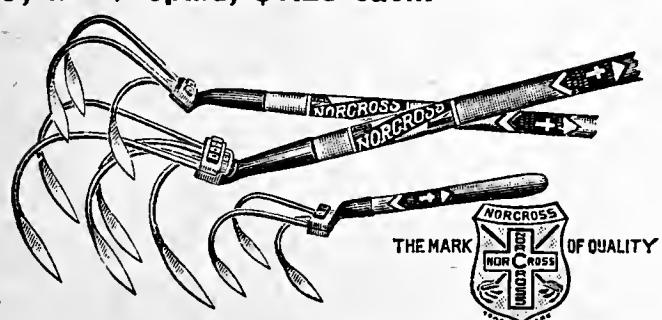
### ENGLISH GRASS HOOK



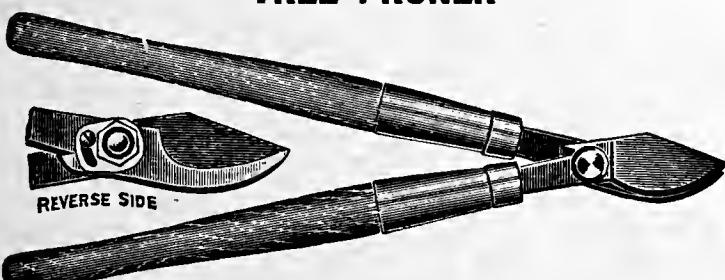
Tool steel blade with crucible steel, riveted and 32-in. lengths. **Each, 75c, postpaid.**

### NORCROSS WEEDERS

The best tool for stirring the soil. Really three tools in one as it hoes, weeds and cultivates all at the same time. Prongs are of spring steel and are detachable. **Price, No. 11, 3-prong Midget, postpaid, 75c; not prepaid, 60c. No. 33, 3-prong medium size, long handle, postpaid, \$1.10; not prepaid, 90c each. No. 55, 5-prong, long handle, postpaid, each \$1.50; not prepaid, \$1.25 each.**



### TREE PRUNER



Blades and hook forged from tool steel and then tempered. Patented lock nut to hold the blade in position. Handles natural finish, with four-inch steel ferrule and cap finished in gray enamel. **Price, postpaid, \$2.75.**

### GARDENERS' IDEAL



This long, narrow-bladed knife is of great value to the celery grower for trimming purposes. Excellent for topping root vegetables. **Each, 50c, postpaid.**

### LETTUCE TRIMMING KNIFE



**Each, 30c; 3 for 75c, postpaid.**

### DANDELION DIGGER



Length, 12 inches; soft maple handle. **Each, 30c, postpaid.**

### GARDEN TROWEL



Handy for transplanting in the greenhouse or outside. **Each, 30c, postpaid.**

### GARDEN HOE

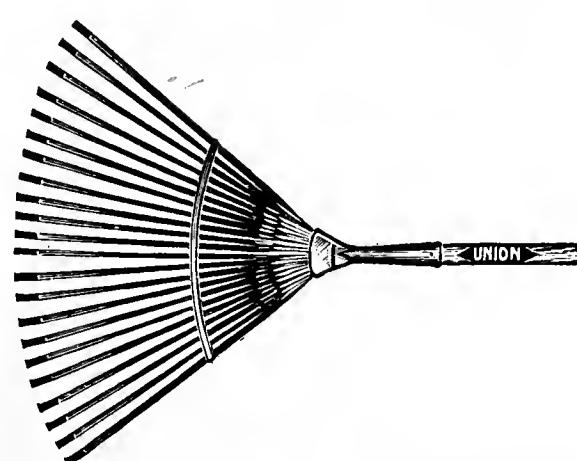


6-inch blade, each, 90c; 7-inch blade, each \$1.00; 8-inch blade, each \$1.10. If wanted by parcel post add 10c for each hoe.

### DANDELION RAKE

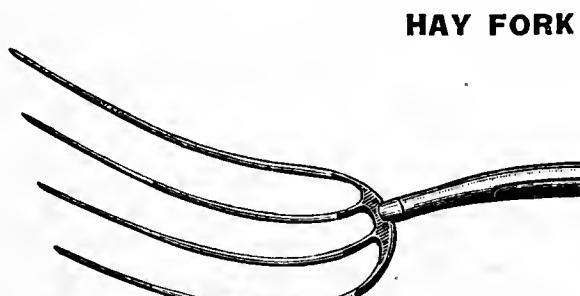


**\$1.00 each, postpaid.**



### BROOM RAKE

Broom Rake is substantially constructed, light in weight and easy to use. Has 22 flat, flexible spring steel tines. **Each, \$1.00, postpaid.**



4-tine hay fork, **\$1.75 each. Postpaid, \$2.00 each.**

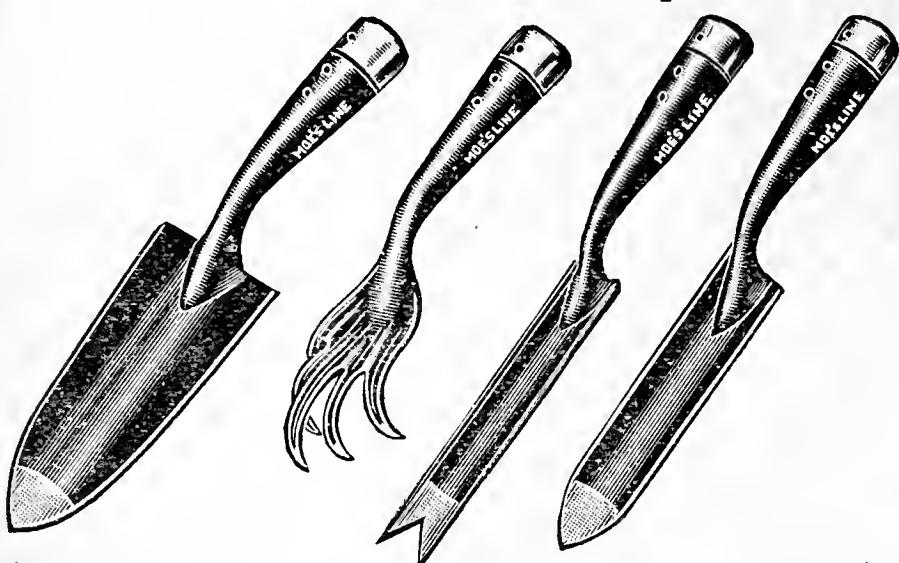
### SPADING FORK



Spading fork, **\$1.75 each. Postpaid, \$2.00 each.**

## Better Garden Tools

### Four-Piece Nickel Kap Set

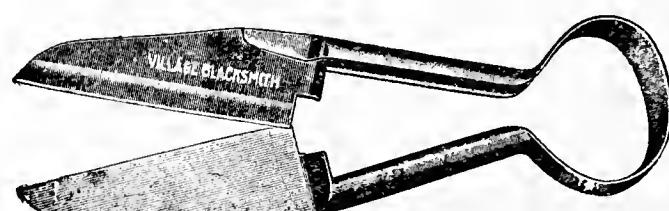


Four-Piece Nickel Kap Set, consisting of a standard Garden Trowel, a Transplanting Trowel with narrow blade, a Hand Weeder or Mulcher, and a Dandelion Weeder. All fitted with nickel plated Caps on the handles. Price per Set, postpaid, \$1.10.

#### ONION SHEARS

— 4 - inch blade, mill finish. Used for topping dry onions, gladiolus bulbs, etc. Each, 40c.

If wanted by mail, add 10c for postage.



#### PRUNING SHEAR

enameled handles. Blued steel Volute spring. Each, \$1.00. If wanted by mail, add 10c for postage.

#### GRASS SHEAR

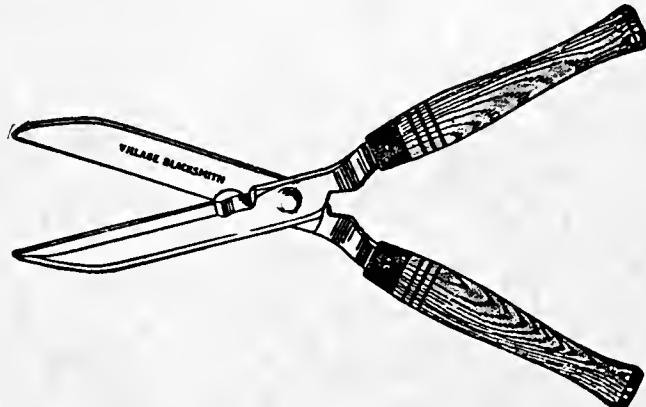
— 6-in. blade. Trowel shank, polished wale edge and inside of blades. Handle and spring red enameled. Each, 65c. If wanted by mail, add 10c for postage.



#### HEDGE SHEARS

— "Village Blacksmith" brand. Best quality. No. 800— 8-inch blade..... \$2.25  
No. 900— 9-inch blade..... 2.40  
No. 1000— 10-inch blade..... 2.50  
No. 1200— 12-inch blade..... 3.10

If wanted by mail, add 25c each for postage.



WISS KLIP GRASS SHEARS — A very practical shear for cutting grass and light vines; easy to operate.

Each, \$1.50. If wanted by mail, add 10c for postage.

ASPARAGUS KNIFE OR DANDELION DIGGER — Length, 15 inches; black enameled. Octagon tool steel tempered. Polished cutting edge. Corrugated green enameled handle securely fastened. Each 40c; dozen, \$4.00, postpaid. Not postpaid: 35c each; dozen, \$3.75.



No. 2 Planet Jr.  
Edger  
Weight 3 1/4 lbs.



### Planet Jr. Lawn Edger

Everyone who uses a lawn mower, has work for one of these edgers; adjustable for a tall or short person. Indispensable in keeping grounds looking neat and attractive, the No. 2 Edger will quickly edge the grass bordering all walks, straight or curved, cement, stone or brick. It is easily operated. Price, not postpaid, \$1.60. Postpaid, \$1.85.

#### ALL STEEL DIAMOND ROTARY CORN PLANTER

The Diamond is the most perfect Rotary Corn Planter on the market. Has four discs, one especially for Broom Corn and seeds of that kind. All steel frame. Postpaid, \$2.50. By express not prepaid, \$2.25.



#### ACME HAND CORN PLANTER

This is the old reliable, two-hand, slide type that Dad thought so much of. Handles and frames of hardwood, all metal parts of pressed steel; strong spring steel cut-off; light, strong and durable. Postpaid, \$1.50 each. By express or freight not prepaid, \$1.25 each.



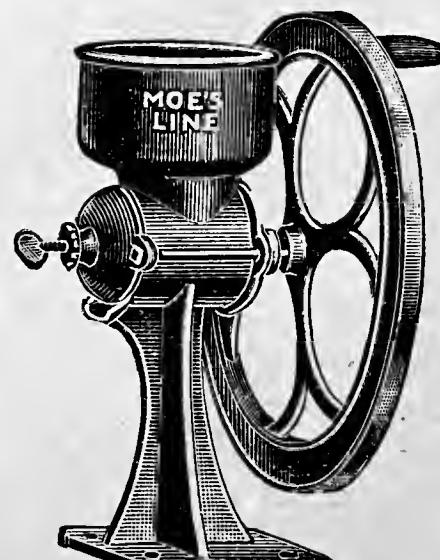
#### SEGMENT ONE-HAND CORN PLANTER

Pockets can be adjusted to plant any size beans or corn. Postpaid, \$2.00. By express not postpaid, \$1.75.



Segment One Hand Planter

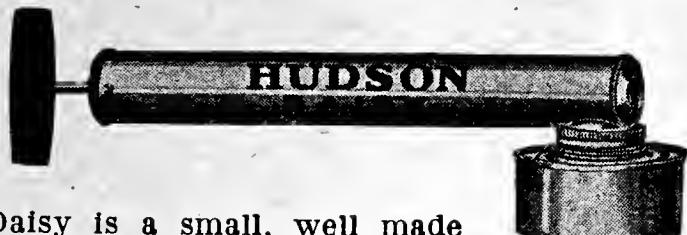
BLACK HAWK CORN SHELLER — The greatest little corn sheller ever made. Shells any size thoroughly. Can't be beat for the price. Weight, 15 lbs. \$3.00 F.O.B. Denver.



### Hand Grinding Mills

Is warranted to wear well and to grind Corn, Wheat, Rye, Rice or other small grain, Beans, Spices, etc. Hand Mill, 12 in. balance wheel. Capacity  $\frac{1}{2}$  to 1 bu. per hour. Shipping weight 22 lbs. Not postpaid, \$4.10. Postpaid, \$5.00.

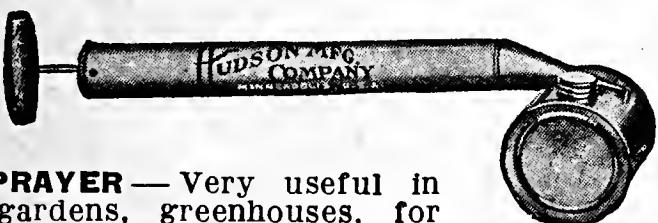
## Sprayers and Dusters



The Daisy is a small, well made sprayer for general purposes, especially adapted for use in and about the home. Will handle all kinds of liquids satisfactorily. **By mail, postpaid, 35c. Not postpaid, 25c.**



**MISTY SPRAYER**—A very convenient sprayer for all general purposes. It is a single acting atomizer that throws a fine misty spray, thus making it very effective for all kinds of small spraying, disinfecting, and applying furniture and automobile polish. Made of heavy tin and holds one pint. **By mail, postpaid, 45c. Not postpaid, 35c.**



**HAND SPRAYER**—Very useful in small gardens, greenhouses, for spraying house plants, poultry houses, etc., applying liquids in a fine mist, with no waste. May be also used as a duster for applying paris green, arsenate of lead, slug shot and other dry powdered insecticides. **By mail, postpaid, 65c. Not postpaid, 50c.**



**CONTINUOUS SPRAYER**—Gives a uniform, continuous spray on both up and down stroke of plunger. Will spray fly oils, insecticides and disinfectants as well as regular spraying materials. Operates at any angle, all parts accessible for cleaning. **By mail, postpaid, \$1.00. Not postpaid, 85c.**

**LITTLE GIANT BRASS BUCKET SPRAY PUMP**—The Little Giant Brass Bucket Spray Pump is constructed entirely of brass. It is so arranged that the labor of pumping is all done on the down stroke of the piston and nothing on the up. **Price, by mail, postpaid, \$4.25. Not postpaid, \$4.00.**



**ECONOMY SPRAYER**—Capacity,  $3\frac{3}{4}$  gallons; made of first quality galvanized sheet, double folded top and bottom seams, riveted side seams, heavily sweat soldered throughout; the pump is seamless brass tubing, will spray liquid insecticides, whitewash, cold water paint, disinfectants, etc. Equipped with 2 feet of hose, extension pipe, and brass automatic nozzle that operates perfectly under all pressures. The Economy is designed to give the greatest possible value at an attractive price. **By mail, postpaid, \$4.85. Not postpaid, \$4.50.**



**PERFECTION SPRAYERS**—A splendidly built, high pressure sprayer, easy to operate and economical to use. Capacity, 4 gallons; the pump cylinder is seamless brass, non-corrosive; has a brass automatic shut-off valve in the nozzle that operates perfectly under all pressures; an efficient and durable automatic brass air valve equipped with 2 feet of hose and 12-inch brass extension pipe.

By Mail	Not Postpaid	Postpaid
Galvanized Steel Tank	\$6.90	\$6.50
Brass Tank	.....	.....
	\$9.65	\$9.25



**VERMOREL ECLAIR No. 1 KNAPSACK SPRAYER**

Simple and compact in construction. Reliable and efficient to the highest degree. A small sprayer that will do a big job, and do it right, with the least effort. Made of copper and to last. Capacity  $3\frac{1}{2}$  gallons. Operated by a lever on the right side, being so adjusted that the arm moves in a natural direction without tiring out the operator. Equipped with 4 1/2-foot hose and extension rod and Vermorel Nozzle. **Price, \$16.50, F.O.B. Denver.**



**D & B SUPERBILT DUSTERS**

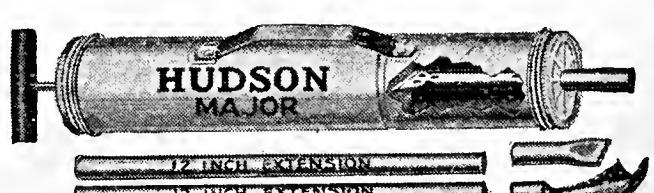
**No. 200**—For dusting all low-growing crops such as potatoes, beans, tomatoes, cabbage, berries, melons, tobacco, cotton, etc. It can also be used effectively on shrubs and small trees. Used for applying all kinds of dry insecticides and fungicides. Complete, as illustrated. **Price, postpaid, \$12.60.**

**No. 100**—Is of the same general construction but smaller capacity than No. 200. **Price, postpaid, \$9.00.**

**SUPERBILT HOUSEHOLD DUSTER**—Capacity 3 ounces. A handy size for use around the house for exterminating roaches, mosquitoes, flies. Also suitable for use on plants in the garden. **By mail, postpaid, 50c.**

**HUDSON DUSTER**

The MAJOR handles paris green, arsenate of lead, and similar poisons very efficiently. Powder reservoir,  $2\frac{3}{4}$  inches diameter, 5 inches long. Fitted with two 12-inch extensions and two tips for dusting low lying plants and under sides of leaves.



No. 665. Major ..... Postpaid, \$1.15  
No. 665A. Major, with 12-inch flexible hose for Cyanogas ..... Postpaid, \$1.25

**AUTOCRAT DUSTER**

No. 667. Autocrat Duster, large capacity.. Postpaid, \$2.40

## These are Money Makers for the Vegetable Grower



### Germaco Hotkaps

Germaco HOTKAPS—"individual hothouses for every plant"—are made of waxed paper in the form of a cone which completely covers the plants—the **only way** to fully protect them from frost. HOTKAPS also protect against rain, wind, ground-crusting, and insects—your assurance of faster-growing, hardier plants, with larger yields and greater profits, because you market earlier.

**Prices:** 1000 lots, \$9.75; 5000 lots, \$9.60; 250 trial package including garden setter with tamper, \$3.50; 100 home package including garden setter and tamper, \$2.25; Germaco Hotkap steel setter with tamper, \$2.50; postage extra.

If you need Hotkaps for your backyard garden, note these postpaid prices: 50 with garden setter, \$1.50; 100 with garden setter, \$2.50; 250 trial package including garden setter with tamper, \$3.90; garden setter alone, 55c.

### Mulch Paper—Nox Weed

Unrolled over the proposed plant-beds, and anchored by soil or other available material along the edges, Mulch Paper imprisons all the moisture in the soil. It catches and retains the sun's heat. This raises the soil's temperature, prevents cooling at night, and promotes continuous bacterial activity, liberating night and day nitrous food matter for the plant, producing bigger, better, and earlier crops.

Planting is done through holes made in the paper, or in the space between two strips of paper rolled out close together. Ample space is provided for plants, but none is left for weeds; nourishment the latter usually steal from soil is saved for crops.

**GRADE "A,"** is light, for annuals. 300 linear yards in roll; 18 inches wide, per roll, \$3.50; 36 inches wide, per roll, \$6.50, not postpaid.

**GRADE "B,"** is heavy, for perennials. 150 linear yards in roll. 18 inches wide, per roll, \$3.50; 36 inches wide, per roll, \$6.50, not postpaid.

### The New Felins Standard Tying Machine

New Felins saves from 3 to 8 hours a day on the bunching time; enables you to market your produce earlier and devote more time to your land.

Adjusts itself to any size bunch from  $\frac{1}{4}$  to 5 inches.

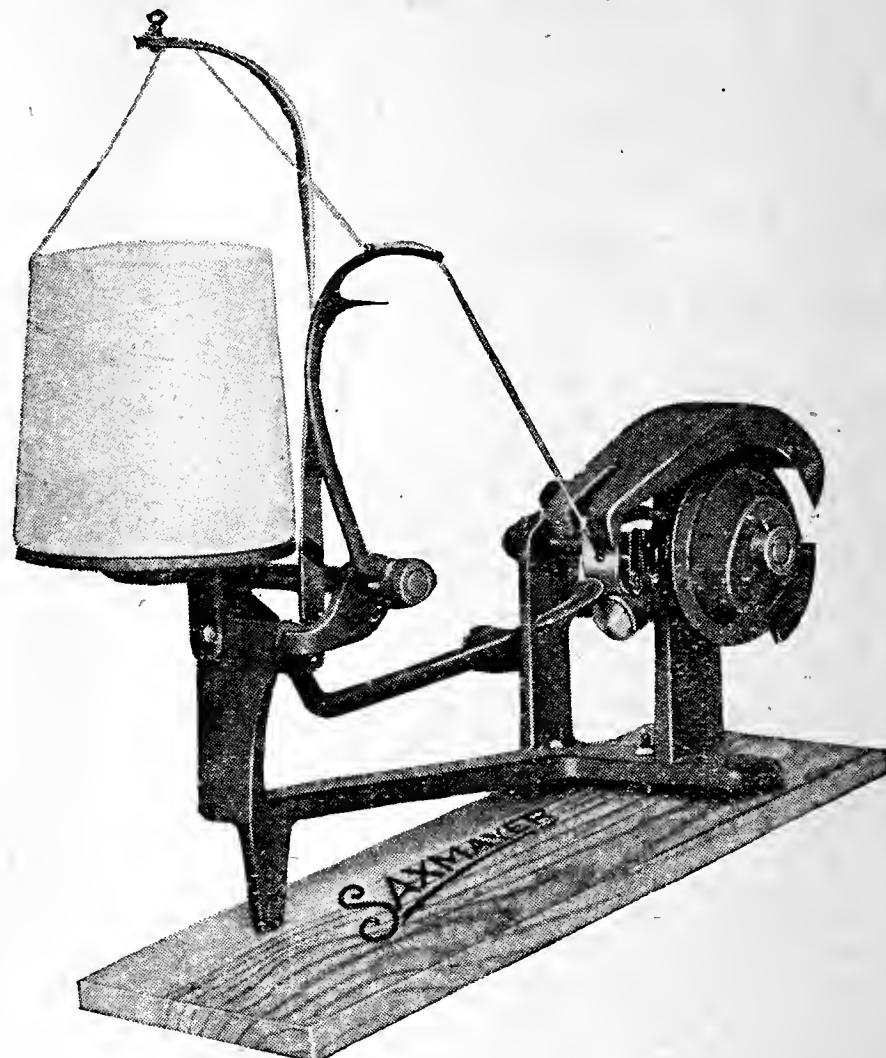
Ties tightly a neat, single bow knot with either 6 or 8-ply cotton twine or No. 13 braid.

Puts system into the bunching operation; affords more leisure, more comfort and greater profits. Descriptive circular on request. F.O.B. Denver, \$59.50.

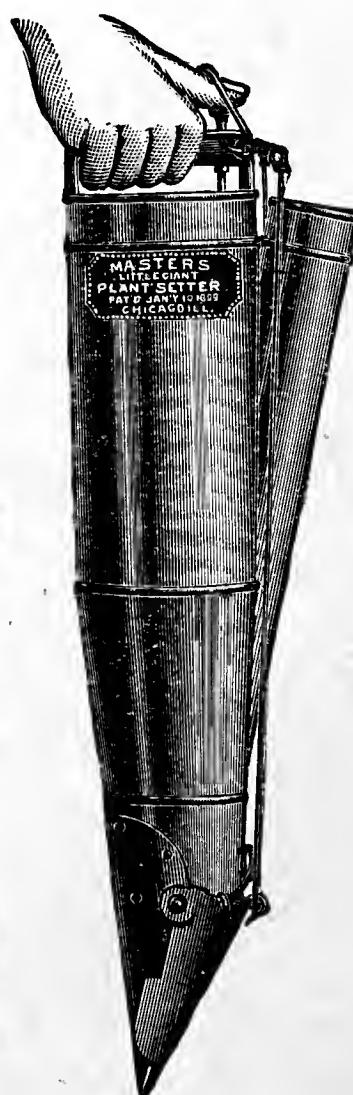
The New Felins "16" Tying Machine operates the same as the Standard Tyer, has a larger knotter and 16-ply cotton twine or No. 17 tape may be used for tying bunches. Price, F.O.B. Denver, \$79.50.



### The Saxmayer Buncher



This dandy Buncher is rapidly becoming a favorite among our local growers. A grower may easily tie from four to five hundred dozen bunches of carrots, turnips or beets in a day. The value of this machine lies in the fact that you may carry it out in the field and tie as the vegetables are pulled; will easily keep up with three men pulling. Excellent for tying green onions, radishes, parsley and mustard greens. Ties a soft bow-knot and pulls the bunches tight. Uses 6-ply cotton twine. Price, F.O.B. Denver, \$45.00.



### Master Rapid Plant Setter

You can raise a larger, better crop of tomatoes, cabbage, cauliflower, sweet potatoes, tobacco, etc., and do it easier, if you use Master's Rapid Plant Setter.

This machine is a handy tool that positively eliminates all the hard labor of transplanting the plants. It is easy and pleasant to operate and more than three times as fast. A man simply walks along in an upright, comfortable position and will set, water and cover 8,000 to 15,000 plants per day and never has to bend his back at all. Price, \$6.00, postpaid.

### RAFFIA

Raffia is used for tying bundles of plants, tying plants to stakes, budding, grafting, and many other purposes. It is very economical as it costs less than twine. 1 lb., 40c; 5 lbs. or more, 30c per lb., postpaid.

## READY-TO-USE PAPER BANDS



Start seeds early indoors, then transplant single plants to Plant Bands and when the weather is settled, set the plant in the garden without removing the band.

Very practical and economical. No roots are exposed to the air when using Plant Bands; they are also a protection against cut worms. Use Plant Bands to force the plant. All bands packed 250 to a carton.

2x2—250 in carton, \$1.00.....Per M \$3.45

3x3—250 in carton, \$1.25.....Per M 4.85

Mailing weight, 2x2 bands, 3 pounds per carton. 3x3 bands, 5 pounds per carton. If wanted by parcel post add postage at zone rate.

## NITRAGIN

Alfalfa, all clovers, soy beans, cowpeas, vetch, peas and beans should all be inoculated with this original soil inoculator. Nitragin will produce more vigor and vitality, increase your yield, and quality and add fertility to the soil.

## Important

NITRAGIN labels are dated and should be used the same year seed is sown. Don't buy legume cultures without a date on the labels. They may be several seasons old and worthless.

## Alfalfa, All Clovers

Size	
1/2 bu.	\$ .50
1 bu.	.90
5 bu.	4.00

When ordering, always specify kind of seed

## Soy Beans and Cow Peas

1 bu.	\$ .40	5 bu.	\$ 1.50
2 bu.	.70	10 bu.	2.50

## Garden Nitragin—Garden Size—Peas, Beans, Sweet Peas

Inoculates from 1 ounce to 8 lbs. seed. Price, 25c.

IMPORTANT: When ordering NITRAGIN, always be sure to state kind of legume seed you wish to inoculate.

## BLACK LEAF 40

There are two distinct kinds of plant insects, the "chewing" (eating) kind and the "sucking" kind.

The sucking insects feed by inserting their sharp, slender beaks into the interior of the leaf, blossom, stem, or fruit. They cannot eat plant tissue, hence cannot eat poison. They must therefore be killed with a preparation which kills by coming into contact with their bodies; in other words, by a contact insecticide—"Black Leaf 40."

Black Leaf 40 is deadly effective against aphids (plant lice), thrips and leaf hoppers. A 35c bottle will make 6 gallons of effective spray.

Prices, not prepaid: 1 oz., 35c; 5 oz., \$1.00; 1 lb., \$2.10; 2 lbs., \$3.10; 5 lbs., \$5.85; 10 lbs., \$10.15, each.

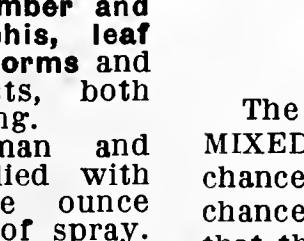
Poisons cannot be sent by Parcel Post.

## EVERGREEN

Is effective against cabbage worms, cucumber and melon beetles, aphids, leaf hoppers, currant worms and most other insects, both chewing and sucking.

Harmless to man and beast. Easily applied with any sprayer. One ounce makes six gallons of spray. Does not burn leaves.

Prices: 1 oz. size, 35c; by mail, 40c. 6 oz. size, \$1.00; by mail, \$1.05. 16 oz. size, \$2.00; by mail, \$2.10. 32 oz. size, \$3.50; by mail, \$3.65. Gallon size, \$11.50; by mail, \$12.00.



## Antrol

Kills Ants in the Nest



ANTS  
DESTROYED  
IN THEIR NESTS

New Method "Gets" Them at Their Source—Safe, Permanent, Effective

The Antrol system is adapted to any size house or garden and quickly destroys all species of sweet eating ants. It is composed of small glass containers and a special formula of syrup. The containers are partially filled with syrup and placed about the outside edges of the house or along "ant" trails in the garden if the infestation occurs there. The ants smell the syrup, eat it and then transmit its mild poison to the queen in the nest. Soon the entire ant colony is destroyed!

The complete system should cover every 15 feet around the outside of the house or "ant" trails in the garden.

Prices—Antrol sets containing four containers and one 4-ounce bottle of syrup, 75c; Antrol extra containers (each), 10c; Antrol syrup, 4-oz. bottles, 35c; pints, 85c; gallons, \$3.50.

Poison CANNOT Be Sent by Mail—By Express Only.

## Snarol

Quickly Kills Garden Pests

SCIENCE PRO-  
VIDES NEW,  
SAFE METHOD  
THAT DOES  
THE WORK  
WITHOUT FUSS

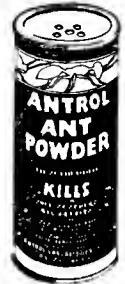
Cutworms, Sowbugs, Grasshoppers, Slugs, Snails, Earwigs, etc., are Exterminated.

Snarol is a ready prepared meal that you simply broadcast on the ground, under the vegetation. The pests eat the meal and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling and also is non-injurious to vegetation when used according to simple directions. These features distinguish it from ordinary controls and make Snarol popular with professional gardeners and nurserymen. Prices: 1 1/2-lb. packages, 35c; 4-lb. packages, 85c; 15-lb. bags, \$3.00; 50-lb. bags, \$8.00. Poison CANNOT Be Sent by Mail—By Express Only.

## ANTROL ANT AND ROACH POWDER

Sprinkle the powder wherever ants or roaches are found. Also sprinkle around cupboards, coolers, or wherever food is kept, but not on food. Take special care to apply freely across the ant trails and wherever pests enter the house. For ant hills sprinkle in and around entrance. 2 1/2-oz. can, postpaid, 25c.

ATLA CIDE  
CALCIUM CHLORATE

A Non-Poisonous Weed Killer

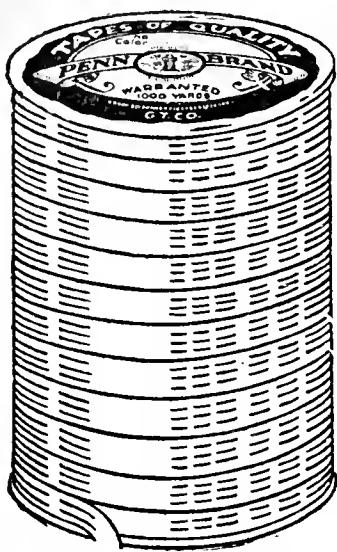
Exterminates all undesirable vegetation including Poison Ivy, Canada Thistle, Johnson Grass, etc., without danger of poisoning humans or animals. Simply shake powder from can on the weeds and grasses to be killed. Especially recommended for obtaining weed-free driveways, paths, tennis courts and gutters. 1-lb. can, 50c; by mail 60c; 3 1/2-lb. can, \$1.25, by mail \$1.45. One pound enough for 100 sq. ft. For large area work we supply 50-lb. drum, \$7.00; 100-lb. drum, \$13.50; 200-lb. drum, \$26.00. F.O.B. Denver.

## K-R-O RAT EXTERMINATOR

The use of K-R-O READY-MIXED eliminates all possible chance of failure. You take no chances of putting out a bait that the rats won't eat, because K-R-O Ready Mixed contains the most tempting rat bait known, selected after years of scientific experimenting. Will not kill human beings, livestock, dogs, cats or poultry. Postpaid, \$1.00.



## Garden Tools and Requisites



### CELERY TAPE

(Fast Colors, 1,000-yard Spools)	Per Spool
No. 17 Blue.....	\$1.50
No. 21 Blue.....	1.75
No. 25 Blue.....	2.10
No. 17 Red.....	1.50
No. 21 Red.....	1.75
No. 13 Blue and Red Braid.....	.90
Not Postpaid.	

### TWINE FOR SACK SEWING

Jute, 2 and 3-ply, in  $\frac{1}{2}$ -pound balls. Price per lb., 25c.

Three-ply jute in skeins, Per lb., 25c.

Sixteen-ply cotton in skeins. Per lb., 30c; 6-lb. pads, \$1.50.

If wanted by mail, add 5c per lb. for postage.

### TWINE FOR TIEING AND BUNCHING

2 $\frac{1}{2}$ -oz. balls, 4-ply, 10c each; 3 for.....	\$ .25
2 $\frac{1}{2}$ -lb. cone, 4-ply cotton, each.....	.75
2 $\frac{1}{2}$ -lb. cone, 6-ply cotton, each.....	.75
2 $\frac{1}{2}$ -lb. cone, 8-ply cotton, each.....	.75
2 $\frac{1}{2}$ -lb. cone, single ply jute, each.....	.50

If wanted by mail, add 5c per pound for postage.

### IMPORTED STEEL SACK SEWING NEEDLES

4-inch bent, each.....	\$ .05
5-inch bent, each.....	.10
6-inch bent, each.....	.10

### SISAL BINDER TWINE

Most of this twine is used in harvesting wheat, oats, etc., and is a very economical twine for general purposes on the farm and garden. Each ball contains approximately 2,500 lineal feet. Price, 5-lb. ball, 55c; 8-lb. ball, 85c, not postpaid.

### NEPONSET WATERPROOF PAPER FLOWER POTS

Made of waterproof fabric. Are absolutely unbreakable. The cheapest pot on the market. They nest closely for shipping.

2  $\frac{1}{4}$ -inch size—1,000 in crate; weight, 12 lbs. 15c doz.; 60c per 100; \$4.50 per 1,000.

3-inch size—1,000 in crate; weight, 26 lbs. 20c doz.; \$1.00 per 100; \$6.70 per 1,000.

4-inch size—500 in crate; weight 30 lbs. 30c doz.; \$1.50 per 100; \$11.50 per 1,000.

If wanted by mail, add postage at zone rates. See page 2 for rates.

### WATERING POTS

Round regular style, heavy galvanized iron, rose nozzle unscrews to clean. Shipped by express only.

8 quart capacity.....	\$1.00 each
10 quart capacity.....	1.25 each
12 quart capacity.....	1.50 each
16 quart capacity.....	1.75 each

### SPHAGNUM MOSS

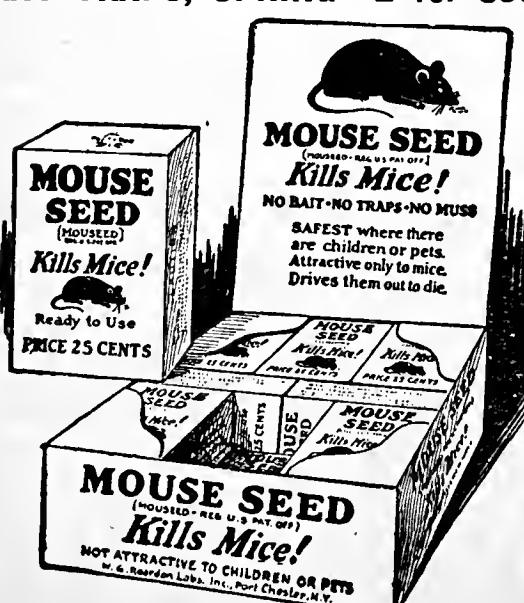
A necessity for all greenhouse operations. Indispensable for packing plants and bulbs for storage or shipment, also for growing ferns, orchids, etc. For houseplants it is useful for covering the tops of pots to retain moisture in the soil. Suitable for use in lining hanging baskets. 1 lb., 20c; 6 lbs., \$1.00. Original bales are \$1.75, not postpaid.

### TREE TANGLEFOOT

A paste preparation for painting around the trunks of trees to prevent caterpillars from crawling up. A band 6 inches wide around the tree will prove effective. 5 lbs., \$2.35, postpaid.

**MOUSE TRAPS, "SPRING."** Bait with cheese. 12 for 35c; 3 for 10c, postpaid.

**RAT TRAPS, SPRING**—2 for 35c; each 20c, postpaid.



### Mouse Seed

A saucer and the seed is all you need to rid your place of mice. A natural seed, chemically treated, to appeal to the mouse, yet is fatal to them. Pour a small quantity of the seed into a saucer and place where you find traces of mice, and results will be quickly obtained; they devour the seed eagerly. Cannot be mailed. Price, per pkg., 25c.

### HOTBED MATS

These are made of cattail rushes made for the standard hotbed sash, 6  $\frac{1}{2}$  feet by 4  $\frac{1}{2}$  feet. Used by all of the local growers to protect their early spring plants. A heavy 6 string frost proof mat. By express or freight at purchaser's expense. Each, \$1.25; per 10, \$11.50.

### RUBBER BANDS

Used to bunch asparagus and hotbed radishes. No. 10, 11, 12, per lb., 75c; 5 lbs., \$3.50, postpaid.

### HAZELTINE WEEDE



Blade made from high grade steel, handle of hardwood. A very necessary and practical tool. Postpaid, 35c each.

### LANG'S HAND WEEDE

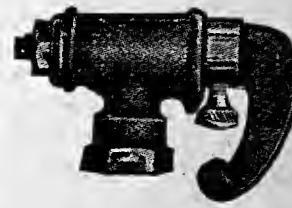
Blade made of steel, handle of iron, with a two-finger grip strap. Every gardener should have one. Postpaid, 25c each.



### BORDEAUX NOZZLE

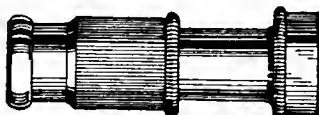
Adjustable from a fine mist to a solid stream, or shut off.

Cast brass. Threaded for  $\frac{1}{4}$ -in. standard pipe. Postpaid, 75c.

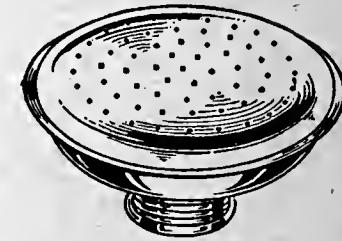


### HOSE NOZZLES

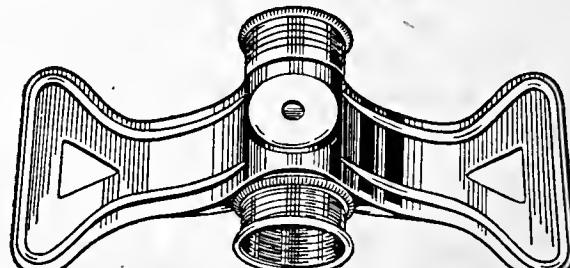
**Boston**—a high grade all-around nozzle for garden and lawn use. Can be adjusted to throw a solid stream or a fine mist by simply turning. For  $\frac{3}{4}$ -inch hose. Postpaid, 65c.



**Long Range Nozzle**—Adjustable from fine spray to solid stream. Postpaid, 50c.



**Rose Nozzle**—A wide-face nozzle. The holes are small and numerous so that copious, yet gentle, shower is given without washing or packing the soil. Postpaid, 50c.

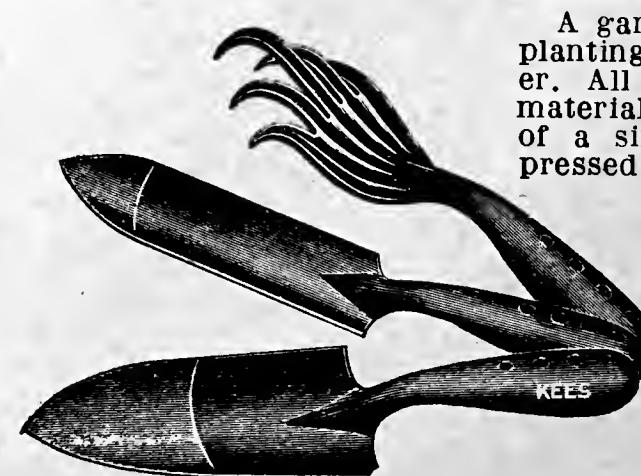


**Sprinklemist Lawn Sprinkler Sets**—Postpaid, 50c each or sets of four, \$1.75.

### THE RING LAWN SPRINKLER

Simplest lawn sprinkler made—no revolving parts to wear out and get out of order or leak. Easily moved about lawns. Made of polished brass, light, durable, economical. Postpaid, \$1.00.

### THREE PIECE GARDEN SET



A garden trowel, a transplanting trowel and a weeder. All are made of good material, each tool is made of a single piece of heavy pressed steel, handsomely finished in black enamel. The trowels have 6-inch blades with ground and polished points. No wooden handles to come off or break. By mail, postpaid, 70c.

## Standard Insecticides and Fungicides



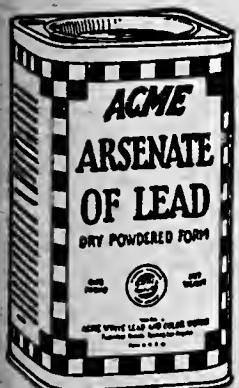
**ACME GARDEN GUARD**—Garden Guard will combat the pests, and yet is of little danger to human or plant life, as other insecticides are. It is effective against many of the chewing insects that prey upon house and garden plants, and Bordeaux Mixture found in it acts, in a measure, as a fungicide. An ideal Insecticide for the housewife to use. **1-lb. sifter top cartons, 25c; 5-lb. pkg., 65c; 100-lb. drums, \$1.00.** Cannot be mailed.

**ACME BAIT-M**—For use against snails, cutworms, sow bugs, grasshoppers and many other insects which migrate along the ground. **1-lb. pkg., 35c; 3-lb. pkg., 60c; 15-lb. pkg., \$2.55.** Cannot be mailed.

**ACME TWO-WAY SPRAY**—A balanced insecticide and fungicide containing 1.4 per cent arsenate of lead and 83 per cent Bordeaux Mixture. Two results with one application.

Use wet or dry on apple, sour cherry, currant and gooseberry, grape, pear, plum, strawberry, pecan, bean, beet, cucumber, pepper, potato, tomato and many other fruits and vegetables. **1 lb., 35c; 4-lb. pkg., \$1.00.** Cannot be mailed.

**ACME ALL AROUND SPRAY**—A complete insecticide for controlling all insects and diseases that affect plants, chewing and sucking insects, blight and fungous diseases. Contains Arsenate, Bordeaux and Nicotine. Full directions with each package. **1/4 lb., 35c; 1 lb., 85c.** Cannot be mailed.



**ACME ARSENATE OF LEAD**—The most favored arsenical insecticide found on the American market. It is safest to use on tender foliage and sticks well on the leaves. Recommended for fruit trees, vegetables, bushes and tobacco. Can be used as dust or spray. **1 lb., 30c; 4-lb. pkg., 75c; case (6 4-lb. pkgs.), \$3.50; 100-lb. drums, \$12.00.** Cannot be mailed.

**DRY LIME-SULPHUR**—Exactly like lime-sulphur solution except that the water has been taken out. For fall and spring spraying, use 12 to 15 lbs. to 50 gallons water. Summer spraying, 2 1/2 to 3 lbs. to 50 gallons water. **1 lb., 30c; 5 lbs., \$1.15; 25 lbs., \$4.50.** Cannot be mailed.

**ACME BORDEAUX MIXTURE**—Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungous diseases. It stimulates plant growth and greatly increases the harvests. Almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture. **1 lb., 35c; 4-lb. pkg., 75c; case (6 4-lb. packages), \$3.50; 100-lb. drums, \$12.00.** Cannot be mailed.

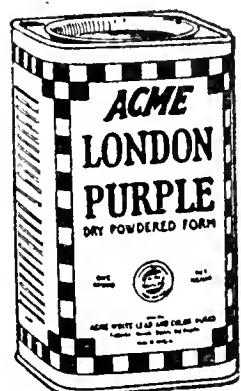
**ACME PARIS GREEN**—A rich, emerald color and of fine fluffy physical character. Containing 55% arsenious oxide, it will give quickest control where extreme measures are necessary.

For use on potatoes, cotton, tobacco, also to mix with arsenate of lead for fruit tree spraying where quick results are necessary. **1/4 lb., 15c; 1 lb., 45c; 5-lb. pkg., \$2.00.** Cannot be mailed.



**ACME SPRAY SOAP**—A (fish oil) soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. Also used extensively with cylinder oils in making oil emulsions to reduce the surface tension.

Its use with Nicotine greatly increases the value of that spray. **Lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.90.** Add 10c per lb. for postage.



**ACME LONDON PURPLE**—For use on potatoes, cotton, tobacco, sugar beets and many other shrubs and vegetables affected by leaf chewing insects. In many potato-growing districts London Purple is preferred to Paris Green or Arsenate of Lead. **1/4 lb., 10c; 1 lb., 35c; 4 lbs., \$1.00.** Cannot be mailed.

**KAYSO (The casein spreader and adhesive)**—Makes the spray spread, makes it stick and makes it cover a greater surface. Most sprays collect in drops that frequently drop off and only the surface that is actually covered is protected. Kayso greatly increases the spreading and wetting properties of the spray, spreads it evenly over the entire surface of bark, fruit and leaves and makes the spray stick persistently regardless of rains. Use two heaping tablespoonfuls for each 10 gallons of spray, or 1 lb. for each 100 gallons. **By mail postpaid, 2 lbs., 75c.**

**CALCIUM ARSENATE (Arsenate of Lime)**—For Mexican bean beetle, boll weevil and other leaf-eating insects. May be applied dry, mixing 1 part calcium arsenate to 7 parts hydrated (airslaked) lime or land plaster; or in water 2 lbs. to 50 gallons of water. **Lb., 20c; 4-lb. pkg., 65c; case (6 4-lb. pkgs.), \$3.50.** Cannot be mailed.

**MAGNESIUM ARSENATE. For Bean Beetle and other leaf-eating insects**—The various state experiment stations recommend magnesium arsenate for killing the Mexican bean beetle, their experiments having shown that it burns the leaf less than other recommended insecticides. For spraying, use 1 pound to 50 gallons of water; for dusting, use 1 pound to 5 pounds air-slaked lime or fine road dust. **2-lb. pkg., 70c; 100-lb. drum, \$23.50.** Cannot be mailed.

**SULPHUR**—Recommended to be used on Irish Potato tubers when planting, at the rate of about 1 lb. of Sulphur to 60 lbs. of Potatoes, it prevents the bleeding of Potatoes and is also a preventative of scab. **By mail postpaid: 5 lbs., 75c; 10 lbs., \$1.25. Not prepaid: 5 lbs., 50c; 10 lbs., 75c; 25 lbs., \$1.50; 50 lbs., \$2.00; 100-lb. bag, \$3.50.**



**SUPERFINE DUSTING SULPHUR (Special Flowers of Sulphur)**—This particularly high grade of sulphur is superior to the ordinary Flowers of Sulphur, being much finer and more effective. However, you will notice that it is no higher in price. **1 lb., 15c; 10 lbs., \$1.25; 25 lbs., \$2.50.**

**WETABLE SULPHUR**—An excellent Fungicide for the control of mildew, blackspot rust and fungus. One of the best controls for delphinium and snapdragon rust. Use one ounce to each gallon of water, keep well stirred while using. **1 lb., 20c; 5 lbs., 75c, postpaid.**

**TOBACCO DUST**—For fumigating and dusting and a preventative against aphids, beetles, fleas and insects in the ground and around roots of trees and shrubs. **Lb., 10c; 5 lbs., 40c; 10 lbs., 70c; 100 lbs., \$4.50. Not postpaid.**

**HELLEBORE**—**Powdered.** Effective in killing the worms on currant and gooseberry bushes. Less poisonous than Paris Green, making it much safer to use on fruits and vegetables. **1/2 lb., 35c; 1 lb., 60c.** Cannot be mailed.



**ACME SPRAYING GUIDE**

Compliments of  
Acme White Lead and Color Works  
Detroit, Michigan

WHEN AND WHAT TO SPRAY

Write for this Fine Guide Free

ACME SPRAYING GUIDE



## Standard Insecticides

**VOLCK**—A wonderful spray for the garden, nursery and greenhouse. Has produced marvelous results in controlling red spider, mites, flies, scales, mealy bugs, caterpillars, aphis, etc. Kills the insects and acts as a repellent also. This is the ideal spray for roses, chrysanthemums and carnations and is especially recommended for greenhouse use. By mail, postpaid:  $\frac{1}{2}$  pt., 60c; pt., 90c. Not postpaid:  $\frac{1}{2}$  pt., 50c; pt. 75c; qt., \$1.00; gal., \$3.00.

**PRUNING COMPOUND**—“43,” for the trees. A black, thick paint for use on trees where branches are removed or broken. Used in tree surgery. Can, 65c; by mail, 75c;  $2\frac{1}{2}$ -lb. can, \$1.70, postpaid; \$1.55, not postpaid.

**GRAFTING WAX**—For grafting and to rub over wounds made in pruning.  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 30c; 1 lb., 60c, postpaid.

## CYANOGAS

Kills rats, mice, ground hogs, wood chucks, prairie dogs, moles, pocket gophers, chinch bugs, ants and other insects.

Cyanogas A is a grayish powder that gives off hydrocyanic-acid gas when exposed to the air. This gas is deadly to rodent and insect pests and will kill them almost immediately.

Write us for special circulars giving full information about the uses of Cyanogas.  $\frac{1}{2}$  lb., 45c; 1 lb., 75c; 5 lbs., \$3.00. Cannot be mailed.

**CYANOGAS DUSTERS**.....\$1.25, postpaid

**SULPHATE OF IRON**—A remedy for weeds on lawns; kills dandelions without injuring grass. Apply liquid with a fine spray. Particulars on application. 1 lb., 10c; 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50, not postpaid.

**COPPER CARBONATE**—The new dry treatment for treating wheat and sorghum seed for smut that is replacing the wet methods. Use from 2 to 3 ounces to the bushel of grain. The dry treatment is easier, more effective and can be done any time. 5-lb. pkg., \$1.50. Cannot be mailed.

**COPPER SULPHATE**—Blue stone or blue vitriol. Used for early spraying and in making Bordeaux mixture and copper solution. Will keep indefinitely. Special prices quoted on large quantities. By mail postpaid: 5 lbs., \$1.00; 10 lbs., \$1.75. Not prepaid: 5 lbs., 60c; 10 lbs., \$1.00; 25 lbs., \$2.25; 50 lbs., \$4.00; 100 lbs., \$7.50.

Growers have long wanted a non-arsenical insecticide which will destroy beetles, weevils and leaf-eating insects on vegetables, fruit and tobacco. DUTOX (barium fluosilicate) positively KILLS these pests, but does not burn foliage or injure the soil. Growers everywhere endorse it.

Extensive trials by State Experiment Stations, trained experimenters and practical growers indicate that DUTOX (dust or spray) will satisfactorily control the insects shown below:

Mexican Bean Beetle      Celery Flea Hopper  
Bean Leaf Roller      Tobacco Flea Beetle  
Japanese Beetle      Pepper Beetle  
Potato Flea Beetle      Egg-plant Beetle  
Colorado Potato      Blister Beetle  
Beetle      Apple Flea Weevil  
Striped Cucumber      Tobacco Horn  
Beetle      Worm  
Cucumber Worm      Tomato Worm  
Diabrotica Beetle      Tomato Flea Beetle  
Asparagus Beetle      Cabbage Worm  
Horseradish Beetle      Cut Worms  
Strawberry Beetle      Codling Moth, Etc.  
Walnut Husk Fly      Especially effective against the Mexican Bean Beetle.

Not prepaid: 6-lb. pkg., \$1.65; case lots, 36 lbs. at 24c per lb. Cannot be mailed.

**LIME (Hydrated)**—A very important article having numerous uses around the home, garden, farm and lawn. Is used as a reducer and in combination of many insecticides; for whitewash, deodorizing, sweetening sour soil for lawns, and clovers. Not prepaid: 10-lb. bag, 35c; 50-lb. bag, 75c.

**SUNOCO SPRAY OIL**—A self-emulsifying spray for San Jose scale that is rapidly displacing lime-sulphur in fighting this pest. It mixes readily with hard water, forms no sludge or waste and kills every insect it touches. “How To” booklet free on request. It tells how Sunoco spray controls and how to apply. Gal., \$1.50; 5 gals., \$5.50; 15 gals., \$12.75; 30 gals., \$22.50, not prepaid. Cannot be mailed.

## Complete Fertilizers for the Lawn and Garden

In order to have a successful garden or a beautiful lawn it is necessary to use fertilizer in some form. Food is just as necessary for plants as for animals.



IN THE GREEN BAG

Vert is a complete, balanced fertilizer, 5-8-6 formula, containing no inert matter and entirely odorless. It provides all elements of plant food necessary for lawn, flowers, vegetables, fruits, trees or shrubs, in water soluble form, quickly available. It is stained green and comes in green bags. Price: 5 lbs., postpaid, 65c. By freight or express, not prepaid. Price: 5 lbs., 40c; 25 lbs., \$1.40; 50 lbs., \$2.35; 100 lbs., \$3.95.



**VIGORO**  
Complete plant food

The Most Satisfactory All Round Fertilizer. Vigoro has been so well popularized, and so universally used in the past year that it hardly needs a description. It is a balanced compound of the best types of ingredients in proportions best suited to the ordinary plant needs. It is particularly adapted to use on the lawn, in the flower garden and on trees and shrubbery around the home. And it is equally valuable for the house plant and window box. Use 4 lbs. to 100 square feet. Comes in all handy sizes. Price: 12 oz., 10c; 5 lbs., 50c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.00, F.O.B. Denver. By freight or express, not prepaid.

**SACCO** — Those thin spots in the lawn that you have tried so hard to build up — those scraggly shrubs, rose bushes and plants that just won't fill out — they need Sacco.

Sacco has many times the actual plant food value of ordinary manure and is free from offensive odors. A single application brightens a lawn in one week's time and produces an extraordinary growth and bloom among flowers and shrubbery. Also excellent for the vegetable garden. Easy to apply. Full directions on each package. Price: 1-lb. can, 15c; 5-lb. bag, 65c; 10-lb. bag, \$1.00, each, postpaid. By express or freight, not prepaid: 25-lb. bag, \$1.40; 50-lb. bag, \$2.35; 100-lb. bag, \$3.95.



A special fertilizer for weed control in lawns. Being a balanced feeding ration of fertilizer and also containing elements that aid in eliminating weeds; it thus carries merit. Is ideal for Creeping Bent Lawns. Use one pound to 100 square feet. Directions on each package. Descriptive circular free. 25-lb. bag for \$1.65; 100-lb. bag, \$4.75, F.O.B. Denver.

We have a very complete little booklet describing the making of a lawn and use of fertilizer on the lawn and in the garden which we will send free upon request.

MASTERS PERFECT  
FERTILIZER  
DISTRIBUTOR



In three sizes. For the home owner. Width 16 in., capacity 40 to 50 lbs., price, \$9.25, F.O.B. Denver. For the larger lawn, width 24 in., capacity 65 to 75 lbs., price, \$11.50, F.O.B. Denver. For large estates, golf courses, etc., width 36 in., capacity 100 to 110 lbs., price, \$17.25, F.O.B. Denver.

## High-Grade Fertilizers

We have carefully considered the needs of our customers in making up our list of Fertilizers, and in the following list will be found brands with balanced analysis to meet the needs and requirements of the most exacting grower, whether he raises Vegetables for market or home use, grows Grain and Grass crops.

We recommend the use of the higher grade Fertilizers, as experience has proven that the high-grade fertilizers are much more economical to use than the lower grade goods at cheaper prices, as the cost of bags, labor, freight, drayage, storage, and other items of expense is the same per ton on low-grade goods as on the higher grades. Truckers and farmers now realize this and the demand for higher grade goods is increasing with each season.

Prices of Fertilizers given below are the prices in effect at the time this catalogue goes to press. All subject to change.

### Uses of Main Plant Foods

**NITROGEN**—Promotes leaf and stem growth; increases proportion stalk to fruit, and hastens blooming. An excessive amount delays maturity.

**PHOSPHORIC ACID**—Stimulates early root formation; gives vigorous start to plants; increases ratio fruit to stalk; improves quality of fruit and hastens maturity of crop.

**POTASH**—Is important in sugar and starch formation; gives stiffness to stalk; helps plants to resist disease, and improves quality of fruit.

**BONE MEAL**—An excellent top dressing for lawns and an effective fertilizer for use in gardens, vineyards and orchards. Can be used around shrubs and in flower beds without danger of burning the plants. Apply 800 pounds to 1000 pounds per acre. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 100 lbs., \$2.50; 500 lbs., \$11.25, F.O.B. Denver.

**BLOOD AND BONE**—A desirable fertilizer for crops, such as cabbage, cauliflower and corn, but not for root crops, such as beets, turnips, etc., unless used with some form of potash. For garden use apply at the rate of 300 to 500 pounds per acre. Most excellent for potted plants. Price: 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.75, F.O.B. Denver.

**RAW BONE**—Analysis: Nitrogen 3%; Phosphate 22%—An excellent fertilizer for trees, shrubs, strawberries, as the food becomes available over a longer period of time than mineral plant foods. 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.10; 50 lbs., \$1.75; 100 lbs., \$2.25, F.O.B. Denver.

**DRIED BLOOD**—This is used a great deal for indoor culture of flowering plants, being chiefly of nitrogen content. For roses, carnations and chrysanthemums it is very valuable. Also used for mixing with soil and for liquid fertilizing. 1 lb., 10c; 10 lbs., 75c; 50 lbs., \$2.00; 100 lbs., \$3.50, F.O.B. Denver.

**SULPHATE OF AMMONIA**—A nitrogenous plant stimulant, very quick in action, tending to make soil acid. Increases leaf-growth. Much used on lawns, which it not only feeds, but weeds are discouraged; when top-dressing lawns apply 1 ounce per square yard or 350 pounds to the acre, but first mix with several times its bulk of soil or sand. Between rows of spinach, lettuce, cabbage, etc., 3 pounds to 100 running feet may be broadcast and hoed in. As a liquid stimulant dissolve 1 ounce in a gallon of water and apply to the roots of plants. By mail postpaid: 5 lbs., 60c; 10 lbs., \$1.00. By express or freight, not prepaid: 5 lbs., 40c; 10 lbs., 60c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.25.

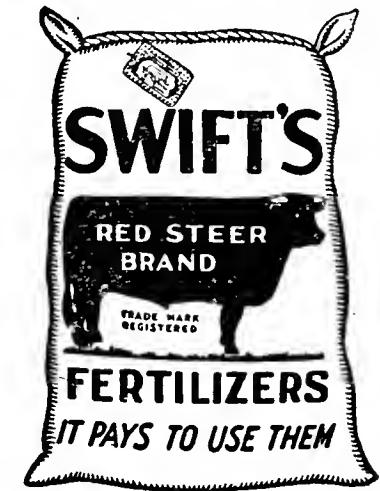
**NITRATE OF SODA**—As a top dressing use at the rate of 100 lbs. per acre between the rows when the plants are well established, on the following vegetables: Cabbage, Cauliflower, Eggplant, Lettuce, Spinach, Beets, Celery and Onions. For Asparagus, a top dressing of 250 lbs. per acre when the young shoots are starting in the Spring. For Strawberries, apply between the rows at the rate of 100 lbs. per acre at the time of blossoming. For the home garden, apply a solution of one ounce to two gallons of water. 1 lb., 15c; 2 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50, F.O.B. Denver.

**PULVERIZED SHEEP MANURE**—An efficient fertilizer to use on lawns, in the garden, the perennial border, shrubbery beds, small fruit garden, flower beds, etc. It is safe and dependable. A natural plant food and not a chemical stimulant. Every amateur gardener can get results with sheep manure. Price: 10 lbs., 25c; 25 lbs., 50c; 50 lbs., 75c; 100 lbs., \$1.25, F.O.B. Denver.

**MURIATE OF POTASH**—Apply 100 to 150 lbs. to the acre usually with other fertilizers. Excellent for Potatoes, Corn Grain, etc. 1 lb., 15c; 5 lbs., 50c; 10 lbs., 85c; 25 lbs., \$1.75; 50 lbs., \$3.00; 100 lbs., \$5.00; F.O.B. Denver.

**PEAT MOSS—Granulated Peat Moss**—A moisture retaining Humus, having many uses in the garden. Renders clayey soils friable and productive; adds needed organic matter to sandy or light soils, and gravelly or stony soils. On the lawn an application in the fall is desirable; and for new lawns, 1 part Granulated Peat Moss to 3 parts topsoil make an ideal base. Among shrubs and in the flower and vegetable garden it may be used with good results, stimulating the development and quickening root growth. It is an ideal mulching material for the perennial border and excellent for mixing in soil for seed boxes and beds. Price, per standard bale weighing about 140 lbs., containing 19-20 bushels of loose peat moss. Single bale, \$3.50; 5 bales, \$3.40 per bale; 10 bales, \$3.25 per bale, F.O.B. Denver.

### Field Fertilizer



### Swift's Red Steer

**Brand Fertilizers are the Best You Can Get**

### Swift's Red Steer Mixtures

Red Steer Fertilizers help you make more money—because they give your crops a quick start, carry the crop to early maturity, make crops more resistant to disease, increase the yield and improves the quality of crops you grow. This makes more profit per acre.

**SWIFT'S RED STEER**—Analysis 4-12-4.

100-lb. bags, \$3.00; 500-lb. lots, at \$13.75; ton lots at \$50.00, F.O.B. Denver.

**SWIFT'S RED STEER**—Analysis 8-24-8.

100-lb. bags, \$4.75; 500-lb. lots at \$22.50; ton lots at \$87.50, F.O.B. Denver.

**SUPERPHOSPHATE**—20%. Apply 300 lbs. to the acre. The standard fertilizer for soils requiring Phosphoric Acid. 125-lb. sacks at \$3.75 per sack; 500 lbs. for \$13.75; ton lots, \$50.00, F.O.B. Denver.

**TRIPLE SUPERPHOSPHATE**—Guaranteed 45 per cent available phosphoric acid. Triple Phosphate is recommended for all grain and grass crops, and vegetable crops. Apply at the rate of 125 to 250 pounds to the acre. 125-lb. sack at \$4.50 per sack; 500 lbs. for \$16.00; ton lots, \$60.00, F.O.B. Denver.

**NITROPHOSKA**—Analysis 15-30-15—Nitrophoska contains all of the three essential plant-foods—nitrogen, phosphoric acid and potash—concentrated in one material. It has 15 per cent of nitrogen, 30 per cent of phosphoric acid and 15 per cent of potash—all of which is soluble and easily available for rapid sturdy growth.

A little Nitrophoska fertilizes a great deal of ground. Five to ten pounds of Nitrophoska (depending upon the natural richness of the soil) is enough to fertilize 1000 square feet of lawn or garden. It may be spread broadcast by hand; dissolved in water and applied with a sprinkling can; or mixed with such materials as peat moss and humus before applying. Price: 1 lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.50; 25 lbs., \$3.00, F.O.B. Denver.

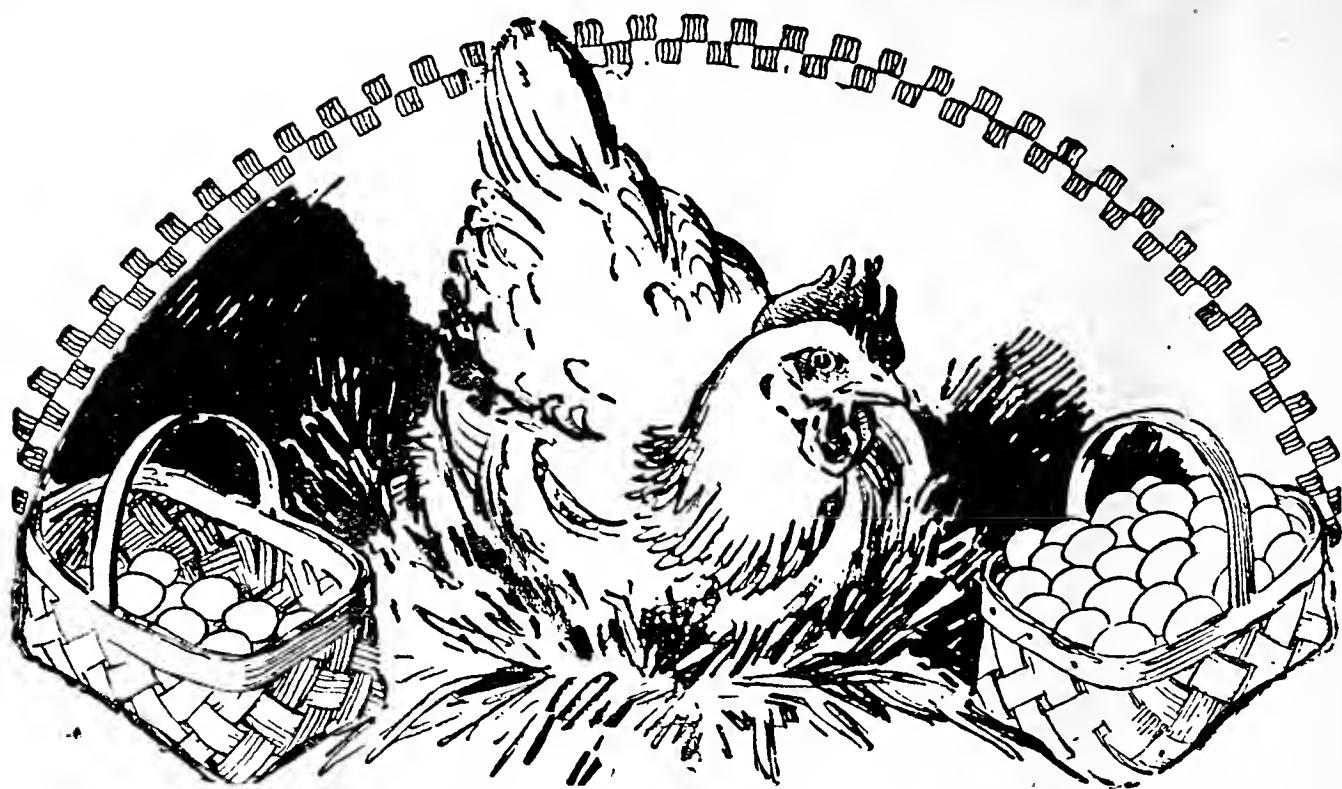
### House Plant Fertilizer

**FEEDEM**—A highly concentrated powdered plant food for promoting growth of ferns and other house plants. 4-oz. box, 30c; 8-oz. box, 50c, postpaid.

**STIM-U-PLANT**—A fertilizer in tablet form. The tablets contain the essential plant foods in highly concentrated form and are, therefore, very convenient for house use. 10 tablets, 15c; 30 tablets, 25c; 100 tablets, 75c; 1,000 tablets, \$3.50, postpaid.

**PLANTABBS**—Plantabbs contain in concentrated form the food and fertilizing elements used by professional florists, landscape gardeners and truck farmers. It promotes luxuriant blooms, vivid colors and vigorous growth of flowers. 30 tablets, 25c; 75 tablets, 50c, postpaid.

## Poultry Feeds, Remedies and Supplies



**PERFEGRO MIXED HEN FEED**—Our original mixture. Supplies the demand for a complete food. Very popular for general feeding and desirable for laying hens. Contains sunflower and yellow cracked corn, greatly desired by many poultry raisers.

**Ingredients**—Wheat, Cracked Corn, Rolled Barley, Milo, Kafir, Sunflower. **10 lbs., 35c; 25 lbs., 75c; 50 lbs., \$1.10; 100 lbs., \$2.00.**

**PERFEGRO EGG MASH**—A mash food for general use. It is prepared with two distinct ideas in view—economical feeding and egg production. The best general purpose mash on the market—a money maker for poultry raisers. Contains organic mineral supplement.

**Ingredients**—Bran, Wheat Meal, Ground Barley, Milo Meal, Oat Flour, Corn Chop, Meat Meal, Bone Meal, Oil Meal, Calcium Carbonate, Salt, Charcoal. **10 lbs., 40c; 25 lbs., 85c; 50 lbs., \$1.25; 100 lbs., \$2.25.**

**PERFEGRO SPECIAL EGG MASH (With Buttermilk)**—This valuable mash food is unsurpassed by any other brand. Recommended for thoroughbred, prize-winning poultry. A combination of the choicest and best ingredients going into a mash food. Try Laying Mash and get results. Contains organic mineral supplement.

**Ingredients**—Bran, Wheat Meal, Corn Chop, Milo Meal, Ground Barley, Meat Meal, Bone Meal, Dried Buttermilk, Oil Meal, Oat Flour, Calcium Carbonate, Charcoal, Salt, Yeast, Iron Oxide, Sulphur. **10 lbs., 45c; 25 lbs., 90c; 50 lbs., \$1.45; 100 lbs., \$2.85.**

**PERFEGRO DEVELOPING FOOD**—Prepared for young chicks after they are ready to be weaned from chick food. Composed of whole grains or cracked to size readily eatable by growing chicks of six to eight weeks old. **10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.25.**

**PERFEGRO GROWING MASH (With Buttermilk)**—This is a high-grade growing mash whose use produces results and "makes 'em grow." It is splendidly compounded after a tried and true formula. Contains organic mineral supplement. We urge all poultry raisers to try it.

**Ingredients**—Ground Millet, Bran, Wheat Meal, Yellow Corn Chop, Milo Meal, Oat Flour, Meat Meal, Cod Liver Meal, Salt, Dried Buttermilk, Alfalfa Meal, Oil Meal, Iron Oxide, Calcium Carbonate, Bone Meal. **10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.25.**

PERFEGRO BRAND POULTRY FEEDS are of our own manufacture, are made from the sweetest and purest of ingredients, thoroughly blended in right proportions to make sturdy, vigorous chicks and strong, healthy fowls.

PERFEGRO POULTRY FEEDS are strictly high-grade feeds, are guaranteed to give satisfaction and to comply with the requirements of existing State Feed Laws.

Prices on Poultry Feeds are subject to market changes, are F.O.B. Denver, delivered free to express or freight depot.

**PERFEGRO BABY CHICK STARTING MASH**—With Dried Buttermilk. A complete feed for baby chicks for the first eight weeks. Everything needed to promote rapid, healthy, uniform growth is contained in this feed. Simply place Starting Mash before your chicks in open hoppers when they are 48 to 60 hours old, and allow it to remain before them at all times. No other feeds are necessary. Starting Mash reduces labor, reduces loss, promotes more uniform growth, and is economical to use. No more scratching around in dirty litter for the feed. It is all fed in the hoppers where it is kept clean and sanitary.

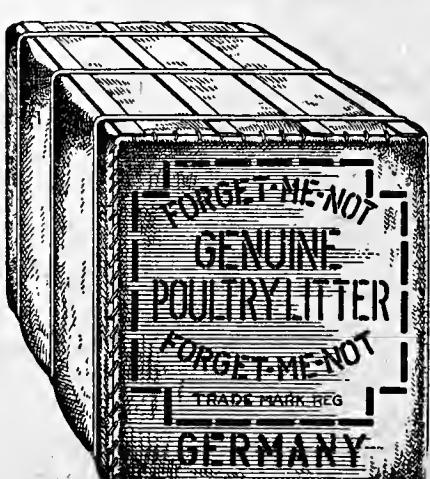
**Ingredients**—Wheat Meal, Bran, Corn Meal, Ground Millet, Oat Flour, Blood Meal, Cod Liver Meal, Oil Meal, Dried Buttermilk, Bone Meal, Salt, Epsom Salts, Calcium Carbonate, Iron Oxide, Powdered Gentian Root, Sulphur, Charcoal, Yeast. **10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$2.15; 100 lbs., \$4.00.**

**PERFEGRO CHICK FEED**—Made of the best of grains, all thoroughly cleaned, cracked to the proper size for chicks, and perfectly mixed. It is advisable to feed scratch grains in a trough or hopper, giving the chicks small amounts that they will eat readily; this will help to improve sanitary conditions.

**Ingredients**—Wheat Grits, Corn Grits, Kafir and Milo Grits, Millet, Bone, Steel Cut Oats, Charcoal. **10 lbs., 45c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.75.**

**HOYT'S CHICK FEED**—A wholesome, ready prepared, scratch feed which will nourish the chicks so they can make rapid growth. Contains the necessary materials to form bone and feathers, such as seeds, millet, and grains. It gives the chicks quick growth and tends to keep them in good health. To properly develop the chick, either for market or to become a producer of eggs it must be fed such feed as will promote growth quickly and uniformly. **10 lbs., 40c; 25 lbs., 85c; 50 lbs., \$1.25; 100 lbs., \$2.25.**

### Imported Peat Moss for Poultry Litter



"Sanitary Poultry Litter is practically fireproof for use in poultry houses, brooders, coops, scratching pens, etc. It is an absorbent, a deodorizer, a disinfectant, a scratching litter, and a dust bath all in one. To say nothing of its exceptional value as a fertilizer when finally removed."

Price per standard bale, weighing about 140 pounds, containing 19-20 bushels of loose Peat Moss: **1/2 bale, \$2.40; per bale, \$3.50; 5 bales at \$3.40 per bale; 10 bales or more at \$3.25 per bale, F.O.B. Denver.**

## Miscellaneous Feeds

### PRATT'S BABY CHICK FOOD With

**Buttermilk** — The original "baby food for baby chicks." Gives chicks a strong start—keeps them growing. 5 lbs., 25c; 10 lbs., 50c; 25 lbs., \$1.10; 50 lbs., \$2.10; 100 lbs., \$4.00, not postpaid.

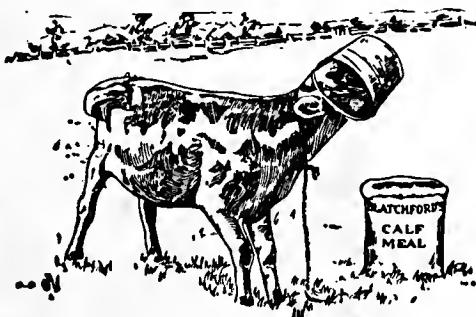


### Pratt's Calf Meal

Calf Meal is a standard article and always beneficial. Will push calves forward quicker than any other food; also good for goats and rabbits. 25 lbs., \$1.40; 50 lbs., \$2.50; 100 lbs., \$4.50, not postpaid.

### Blatchford's Calf Meal

Blatchford's Calf Meal raises calves from babyhood. It is extremely palatable. It is easy to feed. It saves both milk and money. It will pay you to use it. 25 lbs., \$1.50; 50 lbs., \$2.80; 100 lbs., \$5.50, not postpaid.



### Crushed Oyster Shells

Important as an eggshell maker and promoter of health. Our shell is clean and free from waste. No. 3 for chicks. No. 2 for adults. 10 lbs., 25c; 25 lbs., 50c; 50 lbs., 80c; 100 lbs., \$1.25.

### Dried Buttermilk

Our Dried Buttermilk contains over three times as much food value as buttermilk in any other form and costs about one-third less per pound of actual food content. 1 lb., 15c; 5 lbs., 50c; 10 lbs., 75c; 25 lbs., \$1.50; 50 lbs., \$2.75; 100 lbs., \$5.00, not postpaid.

### Charcoal

Aids digestion and promotes health of chicks to a wonderful extent. No poultryman can afford to be without it. Specially prepared and guaranteed pure. Grade 10 medium chick size, and grade 6, coarse granulated. 2 lbs., 15c; 5 lbs., 30c; 10 lbs., 50c; 50 lbs., \$1.35, not postpaid.

### Packing House Products

	Per Cwt.
Meat Scraps, odorless (50% protein)	\$2.50
Blood Meal (80% protein)	3.25
Poultry Bone Meal	2.50
Green Cut Bone (hen size)	2.50
Green Cut Bone (chick size)	2.50
Raw Feeding Bone Meal	2.75

These items are not postpaid.

### Mineral Feeds

	Per Cwt.
Calcium Carbonate, powdered	\$1.25
Limestone Grit (for hens)	1.25
Limestone Grit (for chicks)	1.25
Granite Grit (hen size)	1.00
Granite Grit (chick size)	1.00
Sulphur for Mash	3.50
Salt, fine for mash	1.15
Epsom Salts—1 lb., 10c; 6 lbs., 50c; 20 lbs., \$1.00; 100 lbs., \$4.50.	
Red Iron Oxide—1 lb., 10c; 6 lbs., 50c.	
Sulphate of Iron (Copperas)—100 lbs., \$4.00.	

These items are not postpaid.

### Oat Meal Products

	Per Cwt.
Oats, Rolled	\$2.75
Oats, Steel Cut	2.75
Oat Groats	2.75
Oat Flour	2.75

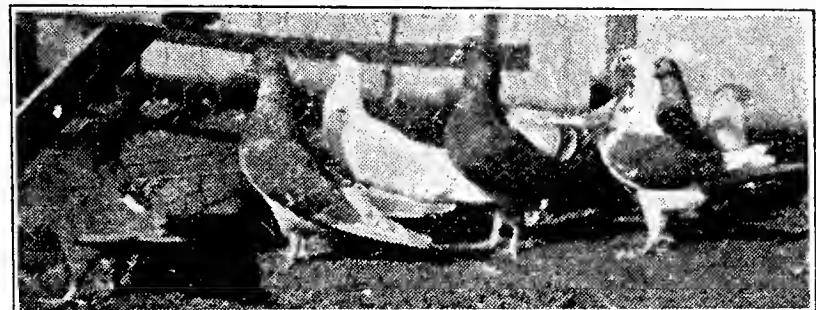
These items are not postpaid.

### Cod Liver Oil

Marden's (Solar Brand), per gallon, \$1.65; 5-gal. cans, \$7.50; 30-gal. drums at \$1.25 per gal., not postpaid.

## Pigeon Feeds

(All Grains for Pigeon Feeding Are Specially Recleaned)



### PERFEGRO BRAND PIGEON FEED

This is the best mixture of good, sound grain we have ever seen, and is the result of many years' experience. Forms a balanced ration that will make pigeons grow and keep them healthy.

**Ingredients**—Peas, Hard Wheat, Kaflr, Milo, Buckwheat, Hemp, Yellow Corn. 10 lbs., 45c; 25 lbs., \$1.00; 100 lbs., \$3.50.

**PERFEGRO BREEDING FEED**—Is made of selected grains, carefully chosen because of their milky content. Squabs thrive on it. 10 lbs., 40c; 25 lbs., 90c; 50 lbs., \$1.60; 100 lbs., \$3.00.

**PIGEON HEALTH GRIT**—A superior grit prepared especially for pigeons, pronounced by pigeon fanciers an excellent grit. Keeps the birds vigorous and healthy. 6 lbs., 25c; 15 lbs., 50c; 100 lbs., \$2.25.

### GRAIN FEEDS FOR PIGEONS

	Per Cwt.	Per Cwt.
Peas	\$4.00	Small Yellow Corn
Millet	2.00	Yellow Flint Corn
Buckwheat	4.00	Hard Red Wheat
Kaflr	1.75	Rice for Feed
Milo	1.75	Hemp

All feed prices are F.O.B. Denver.

### Pigeon Feeders

Pigeons are fastidious feeders with a tendency to scatter and waste feed. Moe's Pigeon Feeder was designed to overcome this. Made of heavy galvanized steel, with feeding holes properly spaced all around the hopper. The hopper has a slanting bottom leading through a large tube to the feeding bottom. This feeding trough or bottom is also made on a slant causing the birds to reach for the food and prevents them from billng the feed out and wasting it.

A practical, economical feeder which will soon save its cost.

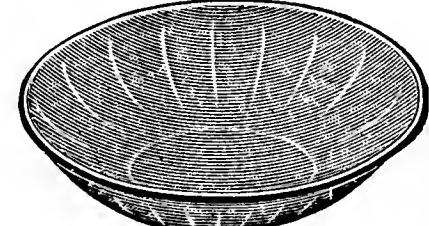
No. 106—Capacity, 6 quarts, not postpaid..... \$1.50 each. Postpaid ..... 1.65 each.

### Pigeon Nests

Made of galvanized steel. Diameter, 8 inches, with a small hole punched in center so it can be tacked to a board. Generally used in pairs.

Light in weight, yet substantial, and easily cleaned.

No. 107—Price, postpaid, 20c each; \$1.80 per doz.



### Water Glass Egg Preserver

Water Glass is recommended by the Department of Agriculture of the United States as being a very simple, economical and safe method for the preservation of eggs. Preserve eggs when plentiful and be prepared for a scarcity when your hens take a rest.

Put the eggs in a crock or jar and mix the Water Glass with water that has been boiled, using 12 parts of water to 1 part Water Glass, and pour it over the eggs. Be sure to see that all eggs are covered with the mixture. Eggs if allowed to stay in this solution, will keep fresh for one year—it's good, try it. Price: Pt., 25c; qt., 40c; 1/2 gal., 75c; 1 gal., \$1.10, not postpaid.

### Egg-O-Latum

For preserving eggs. Merely rub Egg-O-Latum on the eggs and store them away in cases in a cool place. Very simple and practical. One jar contains enough to preserve 50 dozen eggs. Price: 2-oz. jar (50 doz. eggs), 50c; 8-oz. jar (200 doz. eggs), \$1.00, postpaid.

## Bird Seed in Bulk

Safeguard the health of your birds by feeding only well recleaned seeds.

**MIXED BIRD SEED**—Composed of recleaned Canary, Rape, Hemp, Millet, and Lettuce Seeds; properly proportioned for best results. 1 lb., 15c; 2 lbs., 25c; 5 lbs., 55c; 10 lbs., \$1.00; 25 lbs., \$2.25.

**GERMAN ROLLER MIXTURE**—The highest grade of mixed bird seeds in the proper proportions. Cuttlefish bone supplied with each order. 1 lb., 20c; 2 lbs., 35c; 5 lbs., 75c; 10 lbs., \$1.40; 25 lbs., \$3.25.

**CANARY SEED**—1 lb., 15c; 10 lbs., \$1.25.

**HEMP SEED**—(Recleaned)—1 lb., 10c; 10 lbs., 75c.

**RAPE, DWARF ESSEX**—1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00.

**RAPE, SWEET GERMAN**—1 lb., 20c; 2 lbs., 35c; 10 lbs., \$1.50.

**LETTUCE SEED, WHITE**—1/4 lb., 10c; 1 lb., 35c; 10 lbs., \$3.00.

**POPPY SEED, BLUE**—1/4 lb., 10c; 1 lb., 35c; 10 lbs., \$3.00.

**THISTLE, BLACK**—Imported—1/4 lb., 15c; 1 lb., 50c.

**MILLET, LARGE YELLOW**—1 lb., 10c; 2 lbs., 15c; 10 lbs., 60c.

**MILLET, LARGE RED**—1 lb., 10c; 2 lbs., 15c; 10 lbs., 60c.

**FLAX SEED**—1 lb., 15c; 10 lbs., \$1.00.

**WILD BIRD SEED**—Feed the wild birds in winter. 4 lbs., 25c; 9 lbs., 50c; 20 lbs., \$1.00.

**SUNFLOWER**—Selected and recleaned; for Parrots. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00; 25 lbs., \$2.25.

**BIRD SAND**—3 lbs., 10c; 10 lbs., 25c.

**CUTTLE BONE**—1/4 lb., 25c; 1 lb., 75c.

**BIRD MANNA**—Each, 15c.

**SPRATT'S MIXED BIRD SEED**—15-oz. pkg., 25c.

**SPRATT'S MIXTURE WITH EGG FLAKE AND FRUIT**—25c.

**SPRATT'S COD LIVER OIL NESTLING FOOD**—20c.

**SPRATT'S MOULTING FOOD**—9-oz. cartons, 25c.

**SPRATT'S SONG RESTORER**—4-oz. can, 25c.

**SPRATT'S SING SONG**—In small tins, 15c.

**LICE POWDER**—1 1/4 ozs., in a powder gun ready for use, 25c.

**POWDER GUNS**—Separate, each, 15c.

When the above foods are wanted by mail, please add postage.

## Dog Foods



Champion Dog Biscuits are a highly concentrated food made from choice cereals, meat, bone, minerals and cod liver oil. Highly relished by your pets. Made in four sizes—the large biscuit, the small biscuit for puppies, the Kibbled (the biscuit broken in small pieces) and the puppy meal. Prices on each size: 1 lb., 15c; 10 lbs., \$1.25; 25 lbs., \$3.00, not postpaid.

**SPRATT'S FIBO**—1 lb., 20c; 2 lbs., 35c; 10 lbs., \$1.60; 25 lbs., \$3.75, not postpaid.

**SPRATT'S OVALS**—1 lb., 20c; 2 lbs., 35c; 10 lbs., \$1.50; 25 lbs., \$3.50, not postpaid.

### SULPHURIZED SALT SPOOLS

Each spool has hole for nail to fasten to wall. Made from the purest kiln-dried evaporated salt, not a dope. The sulphurized spool has sulphur added to pure salt. The health-giving quality of sulphur is well known, making the sulphurized spool the best health-giving. Each, 5c; 10 for 45c; 100 for \$4.00; per case (250), \$7.00, not postpaid.

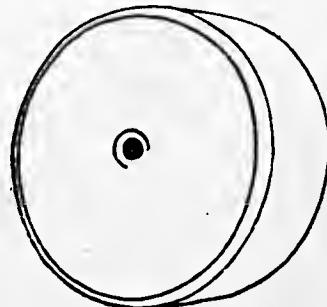
Sulphur Blocks (50 lbs.), each..... \$ .70

Plain White Blocks (50 lbs.), each..... .60

Stock and Hay Salt (100-lb. bags)..... 1.00

Fine Salt (for poultry mashes), 100-lb. bags..... 1.15

Not postpaid; F.O.B. Denver.



## Pest Exterminators

**RAT NIP**—Squeeze Rat Nip thinly and evenly over slices of bread about one-half inch thick with the nozzle of tube or an old knife. Sprinkle sugar over the surface, then cover with flour. Cut slices into pieces about one inch square and place several dozen pieces about premises infested with rats.

Place several low pans of water near bait and away from rat holes and you will find the dead rats near the water. Next morning destroy all bait not devoured and if any rats remain use Rat Nip again in about a week. Price, 35c. Cannot be mailed.

**FELIX GIRARD'S RAT AND MOUSE EMBALMER**—25c, 50c, \$1.00 and \$3.00 pkgs. Cannot be mailed.

**SWEENEY'S POISON WHEAT**—15c, 30c, 60c pkgs. Cannot be mailed.



## Rabbit Feed and Water Jars

Made of stoneware; the water jars have straight sides while the feed jars have a rim turned in, which makes it impossible for rabbits to waste their grain. Breakable, cannot be mailed.

### By Express or Freight

	Each	Doz.
1-Pt. Water Jars	15c	\$1.75
1-Qt. Water Jars	20c	2.00
2-Qt. Water Jars	25c	2.50
1-Pt. Feed Jars	20c	2.00
1-Qt. Feed Jars	25c	2.50



**BOVIER'S RABBIT REMEDY**—For snuffles and slobbers. 8-oz. can, postpaid, each, 40c; 16-oz. can, postpaid, each, 70c.

### GOLD LEAF TOBACCO POWDER

To use "Gold Leaf" Tobacco Powder for the control of round worms, simply mix with the dry mash. The following are the proportions which have been found effective in experiment station flocks:

Thoroughly mix 2 pounds of "Gold Leaf" Tobacco Powder in 100 pounds of dry mash. Feed this mixture regularly for two or three weeks. Discontinue for the same period. Alternate this treatment as long as is necessary. Thoroughly clean and disinfect houses. Provide new litter and keep the birds off infected ground. 1 lb., 10c; 25 lbs., \$2.00; 100 lbs., \$6.50, not postpaid.

### UNIVERSITY WORM CAPSULES

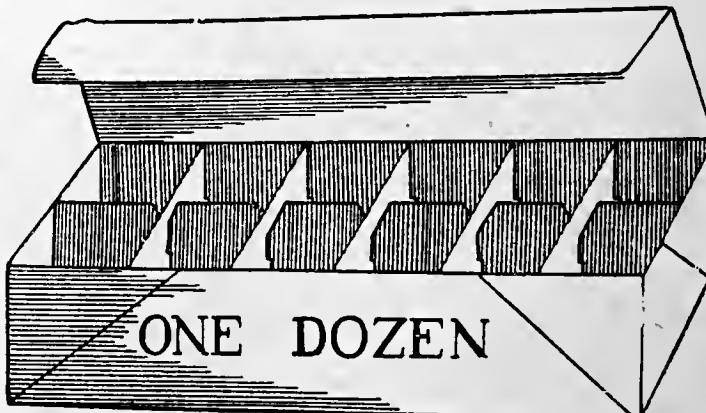
The University Worm Capsules have passed the experimental stage, and it is now a known fact that these capsules are unequaled by any other preparation or method for the control of round worms in fowls. If kept in a cool, dry place, capsules will not lose their strength. Dose: One capsule to each bird. Postpaid: 100 for 75c; 500 for \$2.50; 1,000 for \$4.20.

### KAMALA TAPE WORM CAPSULES

The U. S. Department of Agriculture recommends Kamala Capsules as the only satisfactory method for the removal of tapeworm from fowls. Postpaid: 100 for \$1.00; 500 for \$4.00; 1,000 for \$7.50.

## Epsom Salts

A splendid home remedy. Should be fed after worming. Pound, 10c; 6 lbs., 50c; 20 lbs., \$1.00; 100 lbs., \$4.50, not postpaid.



### PAPER EGG BOXES

6x2. Postpaid: Dozen, 25c; 100, \$2.00. By express not prepaid, 1,000, \$12.00.

**CALFORD**—3x4. This is the most popular style, being more nearly square than the 2x6 size. Printed, 1 Doz. Fresh Eggs. Postpaid: Dozen, 20c; 125 for \$1.85. Not prepaid: 1,000, \$7.50.

## Lee's Poultry Remedies

### GERMOZONE



Germozone three times a week in the drink destroys disease germs taken in with the food or water—Keeps the crop pure and sweet—Corrects and prevents diarrheas and bowel troubles.

It's the best remedy also for Roup, Colds, Canker, Swelled Head and such disorders. The favorite for more than thirty years.

Germozone in liquid form is twice as efficient as tablets given in the drink. **12-oz. bottle, 75c; 32-oz. bottle, \$1.50; 1/2 gallon, \$2.50; gallon, \$4.50, not postpaid.**

Germozone can also be supplied in tablet form in following size packages: **75-tablet size, 65c; 200-tablet size, \$1.35, postpaid.**



### VAPO-SPRAY

Vapo-Spray is a compound of oil of pine tar, coal tar and eucalyptus, and is especially valuable in the treatment of bronchitis, commonly called "flu," and other bronchial troubles of poultry. **1/2-gal. cans, \$1.25; 1-gal. cans, \$2.00; 5-gal. cans, \$8.75, not postpaid.**

### LEEMULSION (Flu-Koff Emulsion)

For the chickens that will readily take feed, mix up some moist, crumbly mash with either milk or water, a somewhat less amount than the chickens would eat normally in one feed. Mix Flu-Koff-Emulsion thoroughly with this mash, at the rate of 1 ounce per 100 birds. This would be about two tablespoonsful, or about six teaspoonsful per 100 birds. Give the chickens nothing else to eat except the medicated feed, which should be given three times a day. Mix in with the first feed, Epsom Salts at the rate of one pound to each 100 birds. **12-oz. bottle, \$1.00; 32-oz. bottle, \$2.00; 1/2-gal. bottle, \$3.50, not postpaid.**



### LICE KILLER (Liquid)

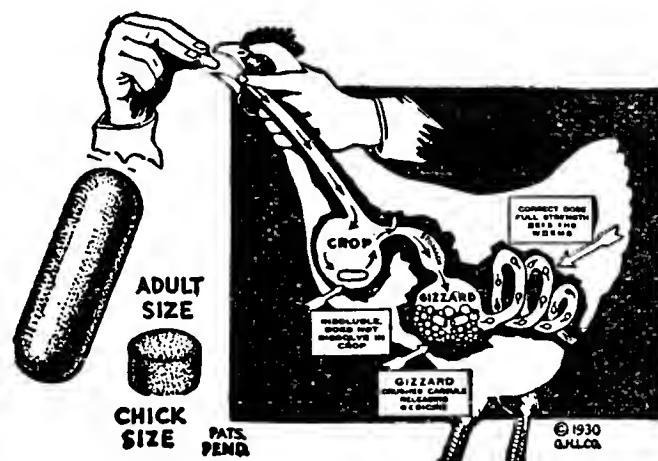
Lee's Lice Killer has been the standard poultry house insecticide for thirty years. Sprayed full strength about the house once a month, with especial liberality on roosts, and in all cracks, crevices, and end joints, of roosting places and nest boxes, in **all-round efficiency and lasting quality** it is not equaled. The monthly use of this marvelous insecticide is more effective than a daily scrubbing with soap and water. **Quart, 60c; 1/2 gallon, 90c; gallon, \$1.50, not postpaid.**

### LOUSE POWDER

In Lee's Louse Powder you have the result of long years of study and experimenting by practical people, not only in compounding goods of this kind, but with a fifty years' experience in the poultry business.

This is a powder prepared by us in round, sprinkler-top cans, handy for instant use on either old or young chickens. **1-lb. cans, 30c; 2 1/2-lb. cans, 60c, not postpaid.**

### GIZZARD CAPSULES



More than 75 per cent of all chickens are infested with intestinal worms, according to poultry authorities—worms which rob a fowl of its food, lower vitality, decrease egg production, retard growth—rob you of your poultry profits.

The GIZZARD CAPSULE will quickly rid your chickens of both tape worms and round worms. Five times as effective as worm remedies given in food or drink. Why? The GIZZARD CAPSULE is insoluble and carries the medicines intact to the gizzard where it is broken like a grain of corn, releasing the medicines into the worm-infested intestines in full strength and undiluted.

As easy to administer as giving a pill. Adult size for chickens, 3 pounds or more and turkeys, 6 pounds or more. Chick size for chicks, 1 to 3 pounds and turks, 2 to 6 pounds. Don't feed worms. Stop this waste and increase your profits. Give GIZZARD CAPSULES now. Satisfaction guaranteed or money refunded.

**50-capsule pkg., \$1.00; 100 capsules, \$1.75; 500 capsules, \$7.00; 1,000 capsules, \$12.00, postpaid.**

### GIZZARD CAPSULES FOR CHICKS

**100 capsules, 90c; 500 capsules, \$3.50; 1,000 capsules, \$6.00, postpaid.**

### PINJECTOL (The Pin Worm Specific)

With an oil base, for the removal of pin worms from poultry by rectal injection. Especially recommended for turkeys as a precaution against transmission of Blackhead. **32-oz. bottle, \$2.50; 1/2 gallon, \$4.50, not postpaid.**

### LEE'S DIP (Liquid)

Lee's Dip is highly concentrated, containing not over 8% inert matter. (Water sufficient to prevent gelatinization during cool weather.) One gallon makes from fifty to one hundred gallons dipping or disinfecting solution, quantity depending upon what it is to be used for. **Quart, 60c; 1/2-gallon, 90c; gallon, \$1.50, not postpaid.**

### FLYO CURO

Lee's Flyo-Curo is a liquid preparation which is sprayed lightly over the animals, forming a thin coating over the surface of the hair and protects the animals from the attacks of insect pests. **Quart, 60c; 1/2 gallon, 90c; gallon, \$1.50, not postpaid.**

### LEE'S NASAL SYRINGE

Treating Swelled Head successfully is now an easy matter. Simply fill this Syringe with Germozone, dilute three tablespoons of the medicine to a quart of water; insert the Syringe in the bird's mouth so that the ridge on the spoon of the Syringe fits into the cleft in the roof of the mouth; then squeeze the bulb. **75c, postpaid.**

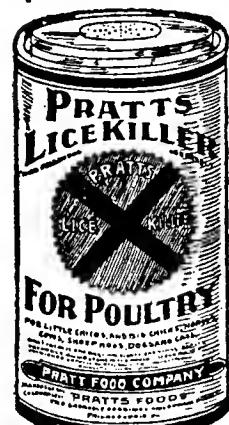


## Pratt's Remedies

**POULTRY REGULATOR** — Present day standards require that a hen lay more eggs and begin laying earlier than was considered possible a few years ago. 200 egg hens require a different kind of care from that needed by 84 egg hens. Pratt's Poultry Regulator contains the minor mineral necessities and digestive tonics that make the extra profitable eggs. Price: Packages, 30c, 60c; 12-lb. sack, \$1.75; 25-lb. sack, \$3.00; 100-lb. sack, \$11.00, not postpaid.



**POWDERED LICE KILLER** — Is composed of Pyrethrum, "Nature's champion bug killer," Naphthaline, the stuff they make moth balls of, and Tobacco powder, rich in nicotine, the most deadly poison for all lice and flesh eating insects. Should be used freely on all birds, stock, pets and shrubs. Price: 1-lb. cans, 30c; 2½-lb. cans, 60c, not postpaid.



**DISINFECTANT** — Over four times as strong as crude carbolic acid, but safe and non-poisonous. Will help to control worms, lice and all diseases. Should be used liberally around all houses, barns, utensils, yards and everywhere germs might thrive. Is an effective dip for live stock. Price: Pint, 45c; quart, 65c; ½ gallon, \$1.00; gallon, \$1.75, not postpaid.



**N-K (Nicotine and Kamala) TABLETS** — An individual treatment for poultry infested with worms. This product is recommended in the following cases:—unconfined farm flocks and growing birds on range—when culling or otherwise handling birds—where only a few birds in flock are infested—where birds are badly affected and immediate action is required—when first housing pullets in fall. Price: 50 for \$1.00; 100 for \$1.75; 500 for \$7.00; 1,000 for \$12.00, postpaid.

**R-P TABLETS (Formerly Roup Preparation)** — Used in preventing and treating colds and other conditions commonly called "roup." Can be used as individual treatment or in drinking water. Price: 30c and 60c packages, postpaid.



**CHICK TABLETS (Formerly Diarrhea Tablets)** — Should be used in chicks drinking water from the start. They make the water safe, tone up the chick and effectively treat diarrhea troubles arising from feeding and brooding conditions. Price: 30c and 60c packages, postpaid.

**POULTRY WORM POWDER** — Will rid your birds of the common worms in poultry, tape and large round worms. This is a simple, economical, flock treatment that does not disturb appetite, growth, digestion or laying. Price: 2-lb. pkg., 60c; 25-lb. bag, \$3.85, not postpaid.

**BAG OINTMENT** — A soothing, benzoinated ointment with peculiar penetrating powers that soften, heal, check irritation and relieve local congestion. For external use in the treatment of caked, swollen or congested udder condition following calving, high feeding or exposure. Also for cracked teats and skin. Price: 60c tubes, postpaid.

**ANIMAL REGULATOR** — Is considered the best general stock tonic ever produced. It is interesting to note that leading colleges, experiment stations and other authorities are today recommending the addition to the diet of live-stock almost exactly the same list of ingredients used in Animal Regulator for over half a century. Price: 70c per pkg., not postpaid.

**SODIUM HYPOCHLORITE** — A preventive disinfectant for houses and drinking water to keep your flocks healthy. Stop diseases if infection is brought in.

A deodorant to keep brooders, incubators, birds and premises clean and sanitary. Price: 10-oz. bottle, 50c; quart, 90c; 1 gallon, \$2.00, not postpaid.

## Pratt's Roost Paint

(Contains Nicotine Sulphate, Kills Lice and Mites)

If the roosts are dusty or dirty, clean them off. If roosts have been white washed, scrape off the lime thoroughly before painting with Roost Paint.

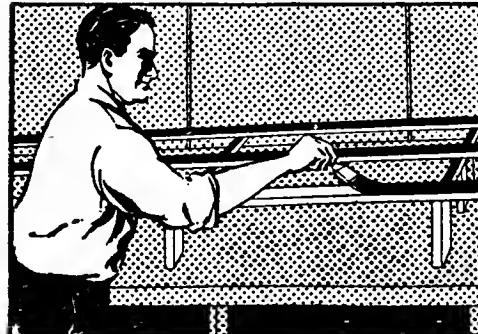
Open ventilators in front of house but shut any above or over roosts. Do not allow strong drafts to blow over the roosts as they will carry the fumes away too quickly. Be sure to provide sufficient fresh air for the birds.

About one hour before birds go to roost, paint the top side of roosts and cross-arms with roost paint. Use about one ounce to 12 to 15 running feet of roosts. One pint will treat 300 feet of roosts. We do not recommend this product for use on baby chicks.

A large percentage of lice will die the first night. However, the lice killing power of this product continues for several nights, so maximum results are usually obtained about the 4th day. In warm weather birds do not roost as long and may stand instead of sit. Therefore, delousing is slower. ½-pint cans, 75c; 1-pint cans, \$1.25; quart cans, \$2.00; gallon cans, \$6.00, not postpaid.

## "Black Leaf 40"

### 'PAINT THE ROOSTS'



### WITH "BLACK LEAF 40"

Previous methods of controlling poultry lice have generally been laborious, expensive, disagreeable and difficult. Individual handling of the birds, as is necessary when using powders, ointments, or dips, requires tedious labor and usually interferes with egg production. The "Black Leaf 40" method does away with individual handling of all of the birds. It does not interfere with egg production.

Put a few lousy hens in a coop by themselves. Paint the roost with undiluted "Black Leaf 40," as directed, then spread some newspapers beneath the roost. Examine the paper the next morning and observe the dead lice. Also examine the hens two or three days later and note the effectiveness of the treatment.

"Black Leaf 40" is available in the following sized containers:

1 Ounce "paints" about	12 feet of roost.....	\$ .35
5 Ounces "paints" about	65 feet of roost.....	1.00
1 Pound "paints" about	200 feet of roost.....	2.10
2 Pounds "paints" about	400 feet of roost.....	3.10
5 Pounds "paints" about	1000 feet of roost.....	5.85
10 Pounds "paints" about	2000 feet of roost.....	10.15

Liquids and Poisons cannot be sent by Parcel Post.

## CARBOLA

The Disinfecting White Paint

A white paint and a powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with spray pump or brush. Dries pure white. Does not flake or peel off.

You just pour some of the Carbola powder into a pail of water and it is ready in a minute or two—absolutely no waiting or straining. It will not clog the sprayer, blister, flake or peel off and doesn't spoil by standing even after it is mixed with water.

Carbola helps control disease germs, lice and mites. There is nothing better than Carbola to help make buildings clean, sweet-smelling and sanitary and it is specially recommended for use in POULTRY HOUSES, KENNELS, CREAMERIES, STABLES, HOG HOUSES, FACTORIES, CELLARS, RABBIT HUTCHES, WAREHOUSES. Prices: 5-lb. pkg., 75c each; 10-lb. pkg., \$1.25 each; 50 lbs., \$5.00, not postpaid.

## Sodium Fluoride

A never-failing cure for lice. It is the government's recommendation as the only sure-kill method. May be used as a dust or in a dip. Equally effective either way. Price: 1-lb. cans, 35c; 5 lbs., bulk, \$1.25, not postpaid.

### BAG BALM

For all diseases of udder and teats, such as caked bag, sore teats, bunches, chapping, cuts or inflammation. Bag Balm makes easy milkers of your herd. Price, 60c per can, postpaid.

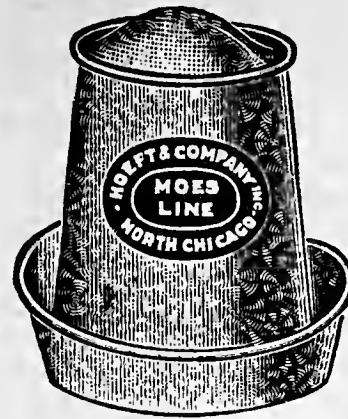
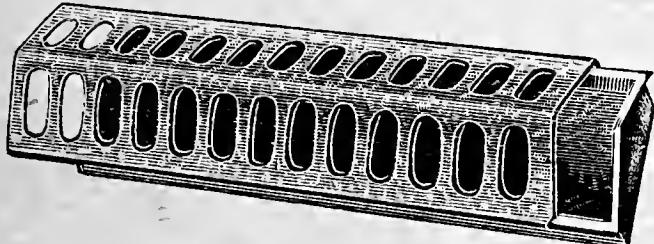
### WALKO TABLETS

**WALKO ROUP, CHOLERA and WHITE DIARRHOEA TABLETS** — Especially valuable for white diarrhoea among incubator chicks. Tend to increase strength and vitality and should be given in drinking water as a preventive from the time chicks are out of the shell. Small pkg., 50c; large pkg., \$1.00, postpaid.

**Round Fountain**

The round taper shape prevents damage from freezing. Made in two pieces accurately formed. Galvanized steel. Easily filled and cleaned.

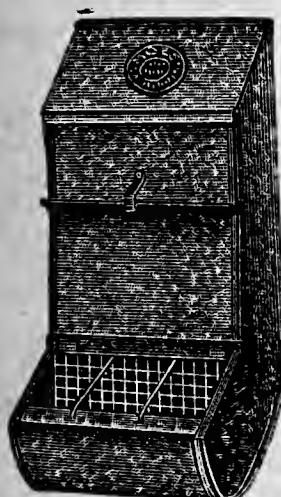
No. 19. 1 qt. .... Each \$ .25  
 No. 20. 2 qts. .... Each .35  
 No. 24. 1 gal. .... Each .50  
 By mail add 10c each for postage.

**Double Feeding Troughs**

Galvanized steel. Feeder holes have smooth turned-over edges to prevent injury to the chicks. Sliding top.

No. 58. Length, 12 in. with 18 feeder holes.... Each \$.30  
 No. 59. Length, 18 in. with 26 feeder holes.... Each .45  
 No. 60. Length, 24 in. with 36 feeder holes.... Each .55  
 No. 76. Length, 36 in. with 52 feeder holes.... Each .75

By mail add 10c each on No. 58 and No. 59; 15c each on No. 60 and No. 76.

**Moe's Dry Mash Hoppers**

Made of heavy, tight coated, best quality galvanized steel. The curved bottom keeps the feed within easy reach of the birds, and the taper shape of the hopper—larger at the bottom—prevents the feed from clogging, and insures a gradual, automatic feed.

The wire grid and the wires running from the flange through the wire grid prevent the fowls from wasting the feed.

The sloping top prevents roosting on the hopper. When both covers are closed they are rat, mouse and weather proof. Height, 19 in.

No. 35. Capacity, 10 quarts.... Each \$1.50  
 No. 36. Capacity, 14 quarts.... Each 2.05  
 No. 13. Capacity, 22 quarts.... Each 2.35  
 No. 37. Capacity, 32 quarts.... Each 3.00

By mail add 15c each on No. 35 and No. 36; 25c on No. 13 and No. 37.

**Poultry Waterers****Can't Freeze**

This chicken waterer provides clean warm water at 40 degrees below. Absolutely non-freezable. Increases egg yield, saves feed, prevents disease and frozen wattles. Brings greater poultry profits and saves time. Low priced. Made in 3 sizes—fully guaranteed.

No. 4. 5-gallon size.... Each \$4.30  
 No. 10. 10-gallon size.... Each 6.35

By mail add 25c No. 4; No. 10, 50c each.

Tops only:

No. 40. 5-gallon size.... Each \$2.65  
 No. 100. 10-gallon size.... Each 4.40

Tops only, by mail add 15c on No. 40; 25c on No. 100.

**Gem Chick Fountains**

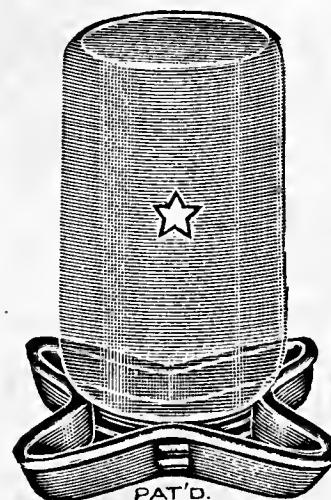
Made with a fluted round pan, shaped so up to 18 chicks can drink at one time without crowding. Galvanized steel and suitable for chicks or grown fowl. Diameter of pan 10 in. May be placed on the floor or hung from the wire top handle.

No. 158. Capacity, 1 gallon... Each \$.65  
 No. 159. Capacity, 2 gallons... Each .90  
 By mail add 10c on No. 158 and 15c on No. 159.

**Magazine Feeder**

The top magazine is water and air tight, so can be used as a Feeder or Fountain. Adjustable for various feeds. Holds 2 quarts.

No. 18. Galvanized, Each \$.55  
 By mail add 10c for postage.

**Moe's Star Fountain and Feeder**

Famous Star Fountain for Mason jars. Made of a single piece of rust-resisting metal, no seams or solder. Suitable for feed as well as water. Will fit 1 pint, 1 quart and 2 quart Mason jars.

No. 32. Heavy Terne Plate. (Glass jar not included): 10c each; \$1.00 per dozen, not postpaid; \$1.20 per dozen, postpaid.

No. 133. Bright Tin Plate (for Buttermilk): 10c each; \$1.00 per dozen, not postpaid; \$1.20 per dozen, postpaid.

**Mason Jar Fountain**

Made of heavy terne plate—rust-resisting. Used with any Mason jar—1 pint, 1 quart or 2 quarts. (Jars are not furnished.)

No. 16. 6 in. in diameter: 10c each; \$1.00 per dozen, not postpaid; \$1.20 per dozen, postpaid.

**OK Insulator No. 400**

Here is the latest OK feature in chicken waterers. A fireless waterer that will water your chickens winter or summer. Requires no fire in winter. Keeps water cooler in summer. Saves time and oil expense for you. Just the type of chicken waterer that poultry raisers everywhere have been looking for. Not to be compared with ordinary waterers of this type in quality of workmanship or efficiency.

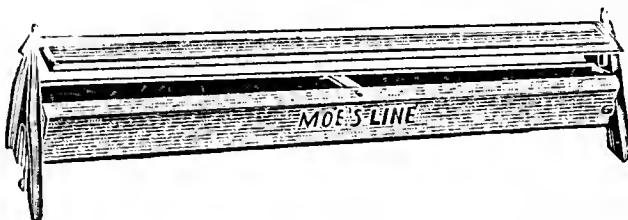
Water placed in the waterer at the temperature indicated, in zero weather, will remain unfrozen a number of hours where the waterer is placed in actual use in the poultry house. Drinking trough all around.

No. 400. 5-gallon size.... Each \$4.90  
 Galvanized stand for above, extra.... Each .80

By mail add 50c for postage on No. 400.



## Five-Foot Feeder



**Moe's Five-Foot Feeder and Waterer**—A large practical and economical feeder, made of heavy galvanized steel. Strongly braced and reinforced.

Has special stamped galvanized steel legs, bolted to the trough, strong, substantial, and will stay in position.

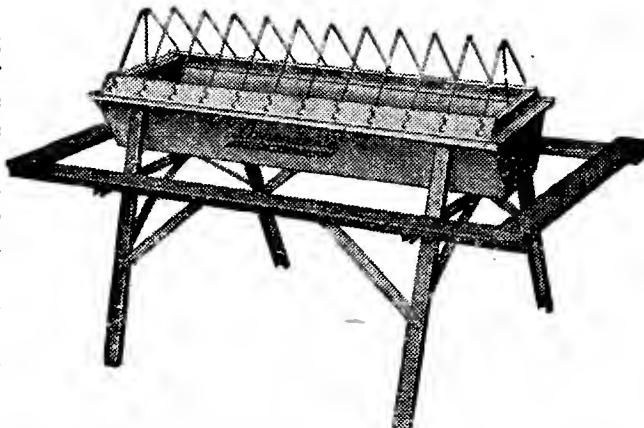
Can be used as either a feeder or waterer. Holds 32 quarts of feed or 8 gallons of water.

Tilting Top Cover to prevent roosting and this cover swings out of the way for refilling and cleaning.

**No. 370.** Length of feeder, 5 ft.; height, 15 in.; width, 8 in.; depth, 5 in. Not postpaid.....Each \$4.25

## Mash Feeders

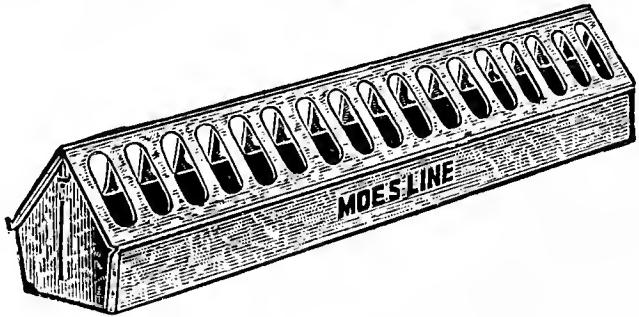
This is the best feeder for laying hens, as with large capacity food can be kept before them all the time. The extra deep lip prevents food waste and keeps food clean. Heavy galvanized steel construction. Trough easily lifted from stand to clean.



### STOCK LENGTHS

**No. 17.** Trough with stand 2 1/2 feet long.....\$3.90  
**No. 19.** Trough with stand 5 feet long.....5.65  
 Not postpaid.

## Tin Plate Buttermilk Feeder



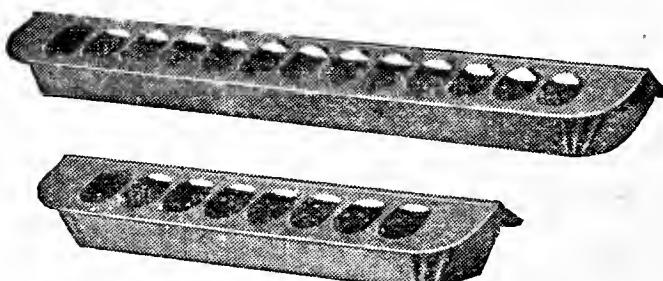
**No. 155.** Bright Tin Plate Feeder and Waterer.

A large capacity Feeder and Waterer made of heavy Bright Charcoal Tin Plate. Not affected by lactic acids and is a safe and sanitary feeder for buttermilk, sour milk, etc.

Has slotted hinged covers which can be thrown back, making it easy to fill and clean. A total of 34 feeder holes, 17 on each side and these openings are exactly the right size and shape and in the proper position to prevent waste.

Length of feeder 32 in., width 8 in., depth of pan 3 1/2 in., total height 7 in., with 34 feeder holes. Capacity 3 gals. Each, \$2.00, not postpaid; postpaid, \$2.25.

## Moe's Eclipse Feeders



For chicks and growing stock. One-piece pan and top. No seams, rivets or solder used. Sliding top, easy to fill and clean.

Bright Tin (for Buttermilk)

**No. 137.** Length, 10 in. with 10 holes.....Each \$.30  
**No. 138.** Length, 20 in. with 20 holes.....Each .40

By mail add 10c for postage.

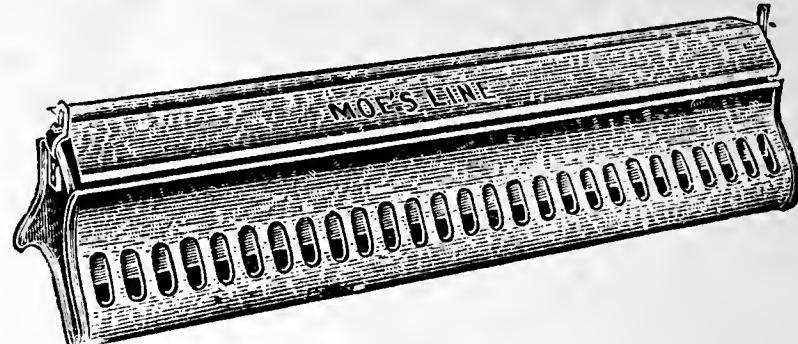
## Red Felt Lamp Wicks

High grade felt wicks. A big improvement over loosely woven cotton wicks. No loose threads to burn uneven and smoke. Packed 1 dozen in a bundle. Postpaid.

For

No.	Width	burner	Each	Per doz.
1.....	5-8	1	\$ .03	\$ .25
2.....	7-8	2	.05	.45
3.....	1 1/2	3	.05	.55

## Moe's Large Capacity Feeder



A fine feeder for growing stock, and a great time and labor saver. Sliding top, easy to fill and clean.

**No. 140.** Feeder, 32 holes, capacity 10 qts.....Each \$1.20

**No. 141.** Feeder, 54 holes, capacity 17 qts.....Each 1.70

By mail add 25c on No. 140 and 35c on No. 141.

## Grit and Shell Boxes

The feeding of grit, ground shells, and charcoal is recognized as an essential part of the diet, to keep fowls in healthy, prime condition. There is no more economical method of supplying grit, etc., than with these practical, inexpensive compartment boxes. Can also be used as feed hoppers for little chicks.

Made of heavy galvanized steel in two sizes. No solder used in their construction.

**No. 9.** Grit Box. Has three compartments. Price, 85c each.

**No. 90.** Grit Box. Has four compartments. Price, \$1.20 each.

By mail add 10c for postage.



## Moe's Baby Chick Feeders

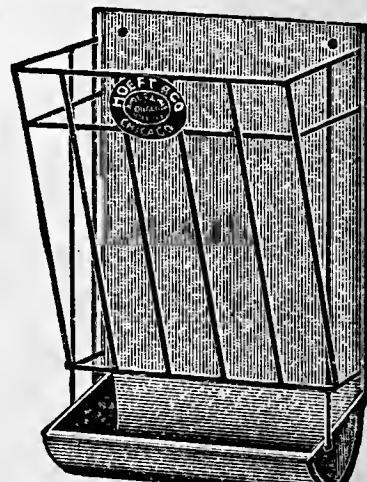
One of the most popular because it saves feed, and can be easily taken apart and cleaned. Made of heavy galvanized iron for feed.

**No. 11.** Eight-hole size: Postpaid: 20c ea.; \$1.75 per dozen. Not prepaid: 15c ea.; \$1.45 per dozen. **No. 12.** Twelve-hole size: postpaid:

30c ea.; \$3.40 per dozen. Not prepaid: 25c ea.; \$2.75 per dozen.

## Moe's Vegetable and Alfalfa Feeder

A practical device for holding roots, cabbages, sprouted oats, alfalfa, etc. Prevents scattering and wasting of food. Postpaid: each, \$1.00. Not postpaid, 90c.



## The Colorado One-Piece Earthenware Fountain For Chickens

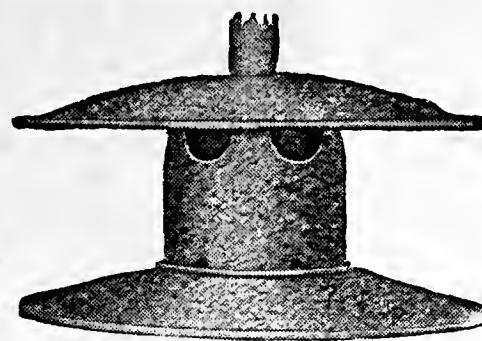
2-Gallon size, by express ....90c each

1-Gallon size, by express ....60c each

1/2-Gallon size, by express ....45c each

Cannot be mailed.

## Putnam Brooder Heater



Full plans for building oat sprouter and brooder sent with Putnam Heaters and Stoves.

### Burns 10 Days Without Attention

The Putnam Brooder Heater is the most popular and satisfactory one on the market. The home-made brooder may be built from a few cents worth of material by any boy and no tools are required except saw and hammer. Plans for building this brooder are packed with every brooder heater. The brooder accommodates from 35 to 60 chicks. Price, delivered to you, \$4.75.

Wicks for above: Each, 5c; doz., 40c.

Wicks and Holders, 20c.

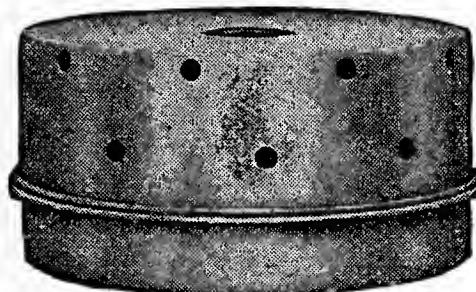
## Little Putnam Stove

### Burns a Month Without Attention

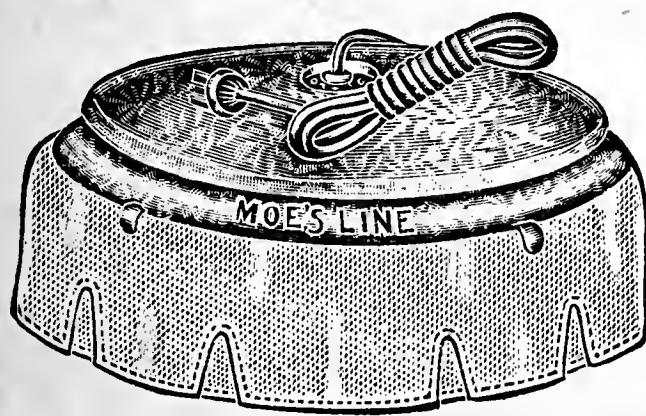
The most satisfactory heater for poultry fountains and home-made oat sprouters. May be used under any can, crock or fountain. Plans for making a home-made oat sprouter packed with every stove. Price, delivered to you, \$2.00.

Wicks for above: Each, 3c; doz., 20c.

Wicks and Holders: Each, 10c.



## Moe's Electric Brooder



**No. 386.** Electric Brooder. A practical, economical brooder for up to 75 chicks. Has a 19-in. galvanized steel canopy, mounted on legs with canvas curtains. The electric heating element is easy of access, complete with cord and attachment for a light socket.

Rated about 100 watts and cost of operation is small. For 110-volt light circuit.

Capacity 75 chicks. Total height 8 in. Packed one in a carton. Shipping weight 12 lbs. Price each, postpaid, \$7.50.

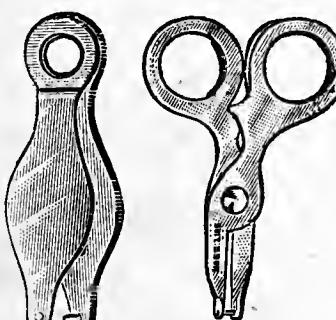
## Poultry Punches

**No. 38—MOE'S**—A popular and practical punch for marking baby chicks. Punches a clean hole and will not bruise foot. Shipping weight, 3 ounces.

Each, postpaid ..... \$ .15

**No. 39—IDEAL PUNCH**—Improved scissors type. Works easily, cuts clean and does not pinch foot. Length, 3 1/2 inches. Shipping weight, 3 ounces.

Each, postpaid ..... \$ .35

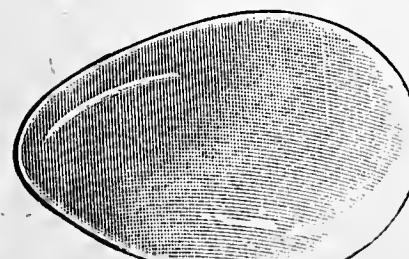


No. 38      No. 39

## Coop Cups

Capacity, 1/2 pint.

**No. 61.** Cup. Each, 15c; \$1.80 per dozen, postpaid.



## Nest Eggs

Will not break easily. Weight, per doz., 2 pounds.

China. Fine grade porcelain.

Per doz. ..... \$ .35

Chalk ..... Per doz. .40

When wanted by mail add 10c per dozen for postage.

## Glass Cloth

Chicks thrive amazingly under glass cloth. They get the ultra-violet sun rays and grow faster and healthier, feathering out into plump frying size several weeks earlier than when kept under glass.

### IDEAL FOR HOTBEDS

Light, strong and cheap. Glass Cloth is the ideal material for hotbeds and cold frames. Glass Cloth holds in the warmth and does not chill as quickly as window glass. Tender young plants need ultra-violet light, just as baby chicks do. Glass cloth lets these rays through and as a result, you grow stronger, hardier plants that will not be nearly so likely to burn up in the sun when you set them out.

1 Yard (9 square feet). Per yard (postpaid) .....	\$ .40
10 Yards (90 square feet). Per yard (postpaid) .....	.30
15 Yards (135 square feet). Special roll price (postpaid) .....	4.20
50 Yards (450 square feet). Special roll price (postpaid) .....	12.50
100 Yards (900 square feet). Special roll price (postpaid) .....	23.00

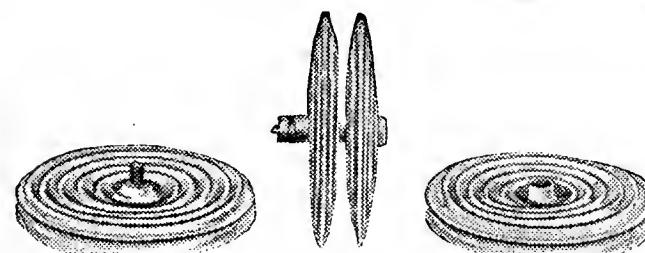
## Cel-O-Glass

### THE UNBREAKABLE

CEL-O-GLASS admits the Ultra-Violet rays of the sun. It spreads the light evenly so that there are no dark shadows anywhere. It breaks up the direct sun rays and diffuses the light and for this reason variation in temperature is reduced to a minimum.

Sold in rolls 3 feet wide and in any length up to 100 linear feet. Use it for garage and barn doors and windows, cellar windows, storm doors and almost any other place where you are now using glass. Price, 42c per running foot; 25-foot rolls, \$9.75; original roll, 100 feet, \$37.50, not postpaid.

## Reliable Brass Wafer Thermostats for any Incubator or Brooder



3-inch, Each, 50c, postpaid.

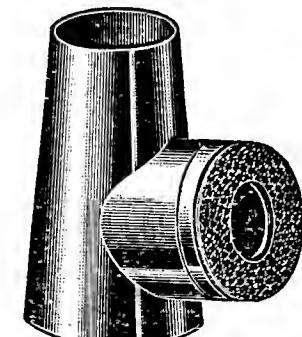
Made in double unit style. They are made of a special tempered brass, vacuum filled and timed to meet their special requirements, so that each and every wafer under a like condition will function the same. They are sensitive, accurate and durable.

## Egg Tester

To test the fertility of eggs during the period of incubation. Used with an ordinary lamp (No. 2 burner) in a dark room.

It will illuminate the interior of the egg and show if the chick is alive, and also shows the size of air cell in the egg. Made in one size only. Shipping weight, 1 lb.

**No. 48.** Moe's Egg Tester. Not postpaid, 25c each. Postpaid, 30c each.



Egg Tester

## POULTRY LEG BANDS

### Colored Celluloid Spiralets

These bands are popularly used for separating the birds into groups, according to age, pen, strain, hatch, or ownership. By the use of combinations of bands of different colors on one or both legs, the complete record of the fowl may be shown.

Spiralets are light, cannot lose off, are easily put on like a key-ring, and are made of solid celluloid.

Seven colors: Black, red, white, green, dark blue, yellow and pink.

Specify age, sex, and breed of birds, and colors of bands wanted, when ordering. Postpaid.

No.	Size	12	25	50	100	1,000
4	Baby Chick .....	\$ .10	\$ .20	\$ .30	\$ .50	\$4.00
5	Pigeon .....	.10	.20	.35	.60	4.25
8	Leghorns, etc. ...	.15	.25	.40	.75	6.00
11	Rock, Reds, etc. ...	.15	.25	.45	.85	7.00
14	Geese, Turkeys ..	.25	.40	.60	1.15	10.00

## CHAMPION LEG BAND

### Numbered Aluminum Adjustable



Useful for numbering the individual fowls. Substantially made with a secure double lock. Numbered consecutively, with stamped raised figures. Adjustable to fit the legs of all breeds.

15c per dozen; 25c for 25; 45c for 50; 75c for 100; \$6.00 per 1,000.

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## Reference Table – Garden Seeds

Quantity of Seed Required	Per Acre	Time for Seeding	Time from Seeding to Maturity
Asparagus, 1 oz. to 800 plants.....	4 lbs.	April 1st to June 1st.....	2 to 3 years
Asparagus Roots, 3,000 to 7,000 plants.....		April 1st to June 1st.....	1 to 2 years
Artichoke Roots.....	500 lbs.	April 1st to June 1st.....	120 to 150 days
Beans, Garden, 1 lb. to 50 ft. row.....	60 lbs.	May 10th to July 1st.....	60 to 80 days
Beans, Field.....	40 to 60 lbs.	May 10th to July 1st.....	60 to 90 days
Beets, Garden, 2 oz. to 100 ft.....	6 lbs.	April 1st to July 1st.....	70 to 90 days
Beets, Mangel.....	6 to 12 lbs.	April 1st to June 1st.....	120 to 150 days
Beets, Sugar.....	10 to 16 lbs.	April 1st to June 1st.....	120 to 150 days
Brussels Sprouts, 1 oz. to 3,000 plants.....	4 ozs.	March 1st to May 1st.....	90 to 120 days
Cabbage, 1 oz. to 3,000 plants.....	4 ozs.	February 1st to May 1st.....	90 to 120 days
Cauliflower, 1 oz. to 3,000 plants.....	4 ozs.	April 1st to July 1st.....	90 to 120 days
Carrots, 1 oz. to 100 ft.....	4 lbs.	Feb. 1st to June 1st.....	90 to 100 days
Chicory, 1 oz. to 100 ft.....	4 lbs.	April 1st to June 1st.....	150 to 180 days
Sweet Corn, 1 lb. to 50 hills.....	10 lbs.	March 1st to June 1st.....	90 to 100 days
Collards, 1 oz. to 100 ft.....	4 lbs.	May 1st to July 1st.....	70 to 100 days
Corn Salad, 1 oz. to 100 ft.....	5 lbs.	April to October	
Cress, 1 oz. to 100 ft.....	10 lbs.	April 1st to June 1st.....	
Cucumber, 1 oz. to 100 hills.....	3 lbs.	May 1st to July 1st.....	60 to 90 days
Egg Plant, 1 oz. to 2,000 plants.....	4 ozs.	March 1st to May 1st.....	120 to 150 days
Endive, 1/2 oz. to 100 ft.....	4 lbs.	March 1st to Sept. 1st.....	90 to 100 days
Kale, 1 oz. 3,000 plants.....	3 lbs.	June 1st to Aug. 1st.....	
Kohl-Rabi, 1 oz. 300 ft.....	4 lbs.	May 1st to July 1st.....	90 to 100 days
Leek, 1 oz. 300 ft.....	4 lbs.	April 1st to June 1st.....	80 to 100 days
Lettuce, 1 oz. 3,000 plants.....	2 lbs.	April 1st to Aug. 1st.....	80 to 90 days
Melon, Musk, 1 oz. 50 hills.....	4 lbs.	May 1st to June 1st.....	80 to 100 days
Melons, Water, 1 oz. 30 hills.....	4 lbs.	May 1st to June 1st.....	80 to 100 days
Mustard, 1 oz. 100 ft.....	2 lbs.	April 1st to July 1st.....	60 to 80 days
Okra, 1 oz. 100 ft.....	8 lbs.	May 1st to June 1st.....	80 to 90 days
Onions, 1 oz. 200 ft.....	4 lbs.	Feb. 1st to May 1st.....	90 to 120 days
Onion Seed for Sets.....	80 to 100 lbs.	Feb. 1st to May 1st.....	90 to 120 days
Onion Sets, 2 lbs. 100 ft.....	500 lbs.	Feb. 1st to July 1st.....	60 to 90 days
Parsnip, 1 oz. 200 ft.....	5 lbs.	April 1st to June 1st.....	120 to 150 days
Parsley, 1 oz. 150 ft.....	3 lbs.	March 1st to June 1st.....	70 to 90 days
Peas, Garden, 1 lb. 50 ft.....	60 lbs.	March 1st to July 1st.....	70 to 90 days
Peas, Field.....	40 to 60 lbs.	April 1st to June 1st.....	70 to 100 days
Peppers, 1 oz. 1,500 plants.....	3 ozs.	Feb. 1st to May 1st.....	120 to 150 days
Pumpkins, 1 oz. to 25 hills.....	3 lbs.	May 1st to June 1st.....	80 to 100 days
Potatoes.....	500 lbs.	April 1st to June 1st.....	90 to 120 days
Radish, 1 oz. to 100 ft.....	10 lbs.	March 1st to Sept. 1st.....	30 to 90 days
Salsify, 1 oz. to 50 ft.....	8 lbs.	April to June.....	120 to 150 days
Spinach, 1 oz. to 100 ft.....	10 lbs.	March to October.....	60 to 90 days
Squash, 1 oz. to 25 hills.....	4 lbs.	May to June 1st.....	80 to 100 days
Tomatoes, 1 oz. 3,000 plants.....	2 ozs.	March 1st to May 1st.....	100 to 120 days
Tobacco, 1 oz. 5,000 plants.....		March 1st to May 1st.....	100 to 120 days
Turnips, 1 oz. 150 ft.....	2 lbs.	March to Sept.	

### AVERAGE TIME REQUIRED FOR GARDEN SEEDS TO GERMINATE

Beans.....	5 to 10 days	Endive.....	5 to 10 days	Pepper.....	9 to 14 days
Beet.....	7 to 10 days	Lettuce.....	6 to 8 days	Radish.....	3 to 6 days
Cabbage.....	5 to 10 days	Onion.....	7 to 10 days	Spinach.....	7 to 12 days
Carrot.....	12 to 18 days	Peas.....	6 to 10 days	Salsify.....	7 to 12 days
Cauliflower.....	5 to 10 days	Parsnip.....	10 to 20 days	Tomato.....	6 to 12 days
Corn.....	5 to 8 days	Parsley.....	15 to 21 days	Turnip.....	4 to 8 days
Cucumber.....	6 to 10 days				

### NUMBER OF PLANTS REQUIRED TO THE ACRE

Distance Apart	No. of Plants	Distance Apart	No. of Plants	Distance Apart	No. of Plants	Distance Apart	No. of Plants
1 foot by 1 foot.....	43,560	2 1/2 feet by 2 1/2 feet.....	6,968	5 feet by 4	2,178	feet.....	2,178
1 1/2 feet by 1 1/2 feet.....	19,360	3 feet by 2 feet.....	7,600	5 feet by 5	1,742	feet.....	1,742
2 feet by 1 foot.....	21,780	3 feet by 3 feet.....	4,840	6 feet by 6	1,210	feet.....	1,210
2 feet by 2 feet.....	10,890	4 feet by 4 feet.....	2,722	8 feet by 8	680	feet.....	680

## Reference Table – Field Seeds

Quantity of Seed Required	Per Acre	Time for Seeding	Time from Seeding to Maturity
Alfalfa.....	10 to 20 lbs.	April to Sept.....	12 months
Barley.....	40 to 60 lbs.	March to June.....	80 to 100 days
Buckwheat.....	30 to 40 lbs.	March to June.....	70 to 90 days
Clover, Red.....	10 to 20 lbs.	March to June.....	
Clover, White Blossom.....	10 to 20 lbs.	March to Sept.....	
Clover, Yellow Blossom.....	10 to 20 lbs.	March to Sept.....	
Clover, White.....	5 to 10 lbs.	March to July.....	
Alsyke.....	10 to 15 lbs.	March to July.....	
Corn.....	8 to 10 lbs.	May to June 15th.....	80 to 120 days
Emmer, Spring.....	40 to 50 lbs.	April to June 1st.....	90 to 120 days
Emmer, Winter.....	40 to 50 lbs.	Aug. to Oct.....	
Flax.....	30 to 40 lbs.	May to July.....	70 to 90 days
Grass, Brome.....	10 to 20 lbs.	April to June.....	
Grass, Ky. Blue.....	20 to 100 lbs.	April to Sept.....	
Grass, Orchard.....	20 to 30 lbs.	April to July.....	
Grass, Rye.....	10 to 20 lbs.	April to July.....	
Grass, Red Top.....	10 to 15 lbs.	April to July.....	
Grass, Timothy.....	10 to 20 lbs.	April to July.....	
Grass, Fescue.....	15 to 25 lbs.	April to July.....	
Grass, Sudan.....	10 to 30 lbs.	April to July.....	
Grass, Johnson.....	10 to 30 lbs.	April to July.....	
Millet.....	30 to 40 lbs.	May to July.....	60 to 80 days
Oats.....	40 to 70 lbs.	March to July.....	80 to 100 days
Peanuts.....	30 to 35 lbs.	May to June.....	60 to 90 days
Rape.....	5 to 7 lbs.	April to Aug.....	70 to 80 days
Sunflower.....	4 to 10 lbs.	May to June.....	80 to 90 days
Corn, Field.....	8 to 10 lbs.	May 1st to June 15th.....	80 to 120 days
Corn, Pop.....	4 to 5 lbs.	May 1st to June 15th.....	80 to 120 days
Corn, Kafir.....	5 to 8 lbs.	May 1st to June 15th.....	60 to 100 days
Corn, Milo Maize.....	5 to 8 lbs.	May 1st to June 15th.....	60 to 100 days
Feterita.....	8 to 8 lbs.	May 1st to June 15th.....	60 to 80 days
Sorghum, for fodder.....	50 to 75 lbs.	May 1st to July 1st.....	70 to 90 days
Sorghum, for syrup.....	8 to 10 lbs.	May 1st to June 1st.....	80 to 120 days
Rye, Spring.....	40 to 60 lbs.	March to June.....	80 to 100 days
Rye, Fall.....	40 to 60 lbs.	Aug. to Nov.....	

*Quality in Flower Seeds is Just as Essential as in Vegetable or Farm Seed*

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Tall double stock flowered: Miss California; La France; Los Angeles; Exquisite Rose; Blue Spire; Lilac Spire; White Spire.

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